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L0749: 4, L0750: 4,	.0755: 4, H0663: 3,	418: 3, H0619: 3,	L0717: 3, H0013: 3,	163: 3, H0553: 3,	H0090: 3, L0763: 3,	.0770: 3, L0766: 3,	.0774: 3, L0664: 3,	L0665: 3, H0519: 3,	3, 10742; 3, 10742; 3,	591: 3, S0276: 3,	H0171: 2, H0341: 2,	S0356: 2, S0360: 2,	H0393: 2, S0300: 2,	H0156: 2, H0150: 2,	H0011: 2, H0687: 2,	S0003: 2, H0328: 2,	.0483: 2, H0634: 2,	H0494: 2, H0560: 2,	H0561: 2, H0646: 2,)638: 2, L0646: 2,	.0374: 2, L0764: 2,	.0776: 2, L0655: 2,	.0657: 2, H0520: 2,	H0660: 2, H0134: 2,	L0605: 2, L0593: 2,	H0542: 2, S6024: 1,	H0583: 1, S0116: 1,	H0483: 1, S0420: 1,	S0358: 1, S0408: 1,
07	07	0S	<u> </u>	<u>01</u>	H	07	07	<u> </u>)H	2	HC	<u>S0</u>	H	H	H	0S	07	HC	H	2	07	07	97	H	<u>1</u>)H	H)H	SO
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H0580: 1, S0045:	H0440: 1, H0431:	Т0104: 1, Н0600	H0632: 1, H0559: 1,	H0485: 1, H006	S0280: 1, L0021: 1	H0042: 1, H0706: 1,	H0505: 1, H058	H0421: 1, H005	L0471: 1, S0051	H0266: 1, H0267: 1,	S0316: 1, H0028	H0252: 1, H061.	H0644: 1, H016	H0598: 1, H0163: 1,	H0038: 1, H037.	H0412: 1, H041	H0623: 1, T0004: 1,	S0372: 1, S0448	S0440: 1, S0150	S0344: 1, S0422	L0598: 1, L0369: 1	L0520: 1, L0762	L0761: 1, L0648	L0521: 1, L0363	L0649: 1, L0650	L0523: 1, L0806	L0653: 1, L0606	L0661: 1, L0527: 1,	L0809: 1, H0658:
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H0672: 1, S0330: 1, S0152: 1, H0696: 1, S0406: 1, H0555: 1, H0478: 1, S0432: 1, L0786: 1, S0260: 1, H0445: 1, L0366: 1, S0026: 1, H0667: 1, H0423: 1, S0424: 1, S0446: 1 and H0008: 1		H0648: 2, H0436: 2,	L0748: 2, S0360: 1, L0766: 1, L0803: 1 and	L0779: 1.					H0486: 1 and H0648:		L0731: 2, H0483: 1,	H0562: 1, L0769: 1,	L0766: 1, H0670: 1,	H0648: 1, L0756: 1,	L0755: 1, L0758: 1, I 0759: 1 and I 0485: 1	
·								Ala-2 to Asp-10.			Arg-11 to Pro-22,					Pro-8 to Phe-18.
	3800	3801			3802	3803	3804	3805	3806	3807	3808					3809
	93 - 248	160 - 306			77 - 265	78 - 290	1 - 237	2 - 340	318 - 560	317 - 463	106 - 267					147 - 479
	1625	1626			1627	1628	1629	1630	1631	1632	1633					1634
	HOOJP58R	HOOJR60R			HOOJR72R	HOOJS84R	HOOJT32R	HOOJT65R	HOOJV78R	HOOJX42R	HOOJX80R					HOOJY17 HOOJY17R
	HOOJP58	HOOJR60			HOOJR72	HOOJS84	HOOJT32	HOOJT65	HOOJV78	HOOJX42	HOOJX80					HOOJY17

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										H0547: 16, H0090: 11,	H0543: 10, H0542: 9,	H0341: 8, L0471: 8,	H0551: 8, S0358: 7,	H0561: 7, S0126: 7,	H0521: 7, H0657: 5,	H0013: 5, S0440: 5,	H0529: 5, H0144: 5,	H0519: 5, H0265: 4,	S0040: 4, H0264: 4,	H0560: 4, H0520: 4,	S0027: 4, L0731: 4,	L0591: 4, L0592: 4,	L0595: 4, H0423: 4,	S0424: 4, H0170: 3,	H0686: 3, H0638: 3,	S0360: 3, S0410: 3,	H0580: 3, H0486: 3,
	Gln-1 to Cys-7, Asn-14 to Lys-22.	Arg-29 to Leu-34,	Ala 1 to Dro 6	Ala-22 to Glu-27,	Glu-36 to Ser-45,	Glu-62 to Gly-67,	Gln-74 to Phe-83,	Thr-90 to Ser-96,	His-105 to Pro-116.				•	,								ı					
3810	3811		2913	7000						3813						-											
51 - 347	2 - 184		1 163	70+ - I						3 - 437			•	·													
1635	1636		1637	/601		•				1638													•				
HOOJY41R	HOOJY44R	7	d08V1OOU	MOOJ FOOL		•				HOOJY92R						_			•								
HOOJY41	HOOJY44		HOOIVen							HOOJY92																	

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H0318: 3, H0510: 3, H0266: 3, H0553: 3, H0591: 3, H0040: 3, L0803: 3, L0657: 3, H0435: 3, S0152: 3, L0740: 3, L0747: 3, S0436: 3, L0588: 3, H0556: 2, S0116: 2, H0663: 2, S0376: 2, S0354: 2, S0376: 2, S0354: 2, H0393: 2, H0642: 2, H0574: 2, T0109: 2, H0635: 2,	S0010: 2, T0110: 2, H0012: 2, H0083: 2, S0214: 2, H0038: 2, T0041: 2, T0042: 2, H0494: 2, H0647: 2, S0422: 2, S0002: 2, L0554: 2, H0660: 2, H0518: 2, S0406: 2, H0624: 1, H0171: 1, H0624: 1, H0171: 1, H0656: 1, S0114: 1, H0650: 1, S0442: 1, S0045: 1, H0619: 1,
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H0600: 1, H0586: 1,	F0039: 1, T0040: 1,	H0244: 1, H0069: 1, H0575: 1 H0004: 1	S0665: 1, H0581: 1,	H0421: 1, S0049: 1,	H0052: 1, T0115: 1,	3327: 1, H0572: 1,	H0050: 1, H0620: 1,	355: 1, S6028: 1,	S0316: 1, H0290: 1,	H0286: 1, H0615: 1,	H0039: 1, H0622: 1,	H0031: 1, H0316: 1,	S0036: 1, H0616: 1,	H0412: 1, H0056: 1,	S0038: 1, S0112: 1,	H0128: 1, H0429: 1,)334: 1, H0625: 1,	H0386: 1, H0509: 1,	H0641: 1, H0633: 1,	S0210: 1, S0426: 1,	.0761: 1, L0800: 1,	764: 1, L0773: 1,	L0775: 1, L0663: 1,	S0006: 1, S0148: 1,	.0438: 1, H0593: 1,	H0689: 1, H0670: 1,	H0666: 1, H0648: 1,	S0328: 1, S0330: 1,
HC		HOH	SOS	HC	HC	OH)H	<u>HC</u>	<u>S</u>)H	OH)H	<u>S</u>	0H	<u>S</u> 0	HC)H	HC	HC	<u>S</u> 0	<u> </u>	<u>2</u>	<u> </u>	OS	<u>2</u>	OH	OH	SO
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S0378: 1, H0696: 1, H0134: 1, H0555: 1, S0037: 1, S0206: 1, L0749: 1, S0031: 1, S0260: 1, H0445: 1, S0434: 1, L0599: 1, L0594: 1, H0422: 1 and S0456: 1.			H0657: 3, L0717: 2,	H0421: 2, L0766: 2, L0666: 2, L0756: 2,	L0759: 2, H0717: 1,	H0587: 1, H0156: 1,	L0021: 1, H0581: 1,	H0014: 1, H0252: 1,	S0422: 1, L0662: 1,	L0794: 1, L0655: 1,	L0809: 1, L0543: 1,	L0791: 1, L0665: 1,	H0658: 1, H0670: 1,	H0648: 1, H0672: 1,	H0696: 1, L0780: 1,	S0434: 1 and H0506: 1.			L0775: 5, L0776: 5,	L0747: 5, L0604: 5,	L0769: 4, L0805: 4,
•		Asp-1 to Lys-22.											•				Pro-20 to Gly-38.		Gly-69 to Glu-78.	,	
	3814	3815	3816														3817	3818	3819		
	107 - 367	118 - 453	210 - 344														14 - 196	107 - 571	207 - 461		
	1639	1640	1641														1642	1643	1644		
	HOOKK83R	HOOKN43R	HOOKN71R														HOPJA09R	HOPJF95R	HOPJG60R		
	HOOKK83		HOOKN71														HOPJA09	HOPJF95	HOPJG60		

L0777: 3, L0759: 3, L0774: 2, L0809: 2, L0758: 2, H0341: 1, H0484: 1, S0358: 1, S0444: 1, S0360: 1, S6026: 1, S0278: 1, H0156: 1, H0102: 1, L0770: 1, L0766: 1, L0770: 1, L0657: 1, L0789: 1, H0684: 1, H0696: 1, S0044: 1,	H0547: 41, L0751: 26, H0520: 18, S0344: 12, L0731: 11, T0006: 9, L0753: 8, L0593: 8, S0278: 6, L0809: 6, H0135: 5, S0142: 5, L0747: 5, H0024: 4, S0328: 4, L0759: 4, H0661: 3, H0664: 3, L0750: 3, L0750: 3, H0668: 3, L0750: 3, H0664: 2, H0662: 2, H0041: 2, H0662: 2, H0081: 2, H0123: 2, H0081: 2,
	Pro-4 to Ser-29, Pro-31 to Ser-38.
	3820
	2 - 136
·	1645
,	HOPJG66R
	HOPJG66

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0: 2, H0099: 2,	H0494: 2, S0002: 2,	9: 2, L0806: 2,	L0517: 2, L0382: 2,	4: 2, H0660: 2,	9: 2, S0152: 2,	L0748: 2, L0587: 2,	5: 2, H0294: 1,	6: 1, H0484: 1,	9: 1, H0208: 1,	H0619: 1, H0586: 1,	H0333: 1, H0427: 1,	2: 1, H0251: 1,	H0546: 1, H0545: 1,	2: 1, H0688: 1,	1: 1, H0606: 1,	H0334: 1, H0646: 1,	S0144: 1, S0426: 1,	L0762: 1, L0640: 1,	3: 1, L0637: 1,	2: 1, L0386: 1,	.0803: 1, L0804: 1,	4: 1, L0378: 1,	5: 1, L0629: 1,	8: 1, L0659: 1,		H0689: 1, H0648: 1,	S0330: 1, S0332: 1,	H0436: 1, H0540: 1,	S0028: 1, L0744: 1,
H005	H049	9207	L0517	890H	H053	L074	7020	H065	990H	H061	H033	500H	H054	H001	H018	H033	S014	79.207	9207	79907	T080.	L0774:	L0805: 1	L0558: 1	1078	890H	S033(H043	S0028
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L0755: 1, L0757: 1,	20, 20, 1 and 30270. 1.					S0412: 22, L0662: 19,	L0777: 14, S0010: 11,	80222: 9, 86028: 9,	L0750: 9, T0010: 8,	L0659: 8, L0747: 8,	L0756: 8, L0663: 7,	L0439: 7, H0051: 6,	L0518: 6, L0754: 6,	L0752: 6, S0280: 5,	H0575: 5, S0358: 4,	S0346: 4, L0753: 4,	H0170: 3, H0662: 3,	S0360: 3, H0427: 3,	L0471: 3, H0373: 3,	L0638: 3, L0637: 3,	L0764: 3, L0774: 3,	L0809: 3, L0666: 3,	S0310: 3, H0672: 3,	H0696: 3, L0731: 3,	H0506: 3, H0713: 2,	S0408: 2, H0411: 2,	H0455: 2, H0574: 2,	S0414: 2, H0486: 2,
	Ala-83 to Arg-91,	Trp-99 to Tyr-105,	Tyr-123 to Glu-128.	Gly-2 to Ala-13.				<u> </u>								<u> </u>		<u> </u>						,,,,,,	<u>, p-t1</u> ,			
	3821			3822	3823	3824										•										•		
	3 - 542			166 - 597	321 - 464	148 - 285			**************************************																			
**. :	1646			1647	1648	1649																						
	HOPJG79R			HOPJG89R	HOPJH17R	HOPJH38R																						
	HOPJG79			HOPJG89	HOPJH17	HOPJH38																						

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H0036: 2, S0049: 2,	H0052: 2, H0327: 2,	H0687: 2, H0428: 2,	H0553: 2, H0644: 2,	H0038: 2, L0520: 2,	.0762: 2, L0770: 2,		S0044: 2, L0442: 1,	H0583: 1, L0443: 1,	110: 1, S0282: 1,	S0400: 1, H0661: 1,	S0348: 1, S0356: 1,	S0444: 1, H0329: 1,	S0007: 1, H0619: 1,	S6026: 1, S0300: 1,	717: 1, S6022: 1,	H0550: 1, H0592: 1,	H0587: 1, H0599: 1,	H0042: 1, H0590: 1,	318: 1, H0309: 1,	545: 1, H0563: 1,	H0564: 1, H0123: 1,	H0019: 1, S0050: 1,	J0163: 1, S0388: 1,	H0356: 1, H0328: 1,	688: 1, H0039: 1,	T0023: 1, H0031: 1,	H0111: 1, H0169: 1,	S0364: 1, L0455: 1,	H0135: 1, H0163: 1,
HO	HO	0H	HO	HO	LO'	<u>ro</u>)OS	HO	.0S	-0S	<u> </u>	70S	<u>200</u>)9 <u>S</u>	<u> </u>	HO	HO	HO	OH HO	HO	HO	HO	3	HO	OH HO	TO	HO	.0S	HO
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T0067: 1, T0069: 1,	 S0112: 1, L0370: 1,	L0598: 1, L0769: 1,	L0630: 1, L0800: 1,	L0648: 1, L0363: 1,	L0768: 1, L0649: 1,	L0803: 1, L0775: 1,	L0375: 1, L0651: 1,	L0784: 1, L0523: 1,	L0805: 1, L0776: 1,	L0527: 1, L0657: 1,	L0635: 1, L0783: 1,	L0789: 1, L0532: 1,	L0664: 1, H0691: 1,	T0068: 1, S0148: 1,	H0693: 1, H0520: 1,	H0593: 1, H0689: 1,	H0684: 1, S0330: 1,	S0380: 1, S0174: 1,	H0555: 1, L0612: 1,	L0743: 1, L0748: 1,	L0751: 1, L0749: 1,	L0779: 1, L0759: 1,	L0689: 1, S0434: 1,	L0604: 1, L0366: 1,	S0106: 1 and S0021: 1.		S0010: 1, H0327: 1,
																		-								Asn-20 to Bro-25	Pro-20 to Glu-25,
			-																							3825	3826
																							www.			6 - 497	101 - 250
																										1650	1651
																										HOPJH65R	HOPJM63R
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H0039: 1, H0622: 1, S0464: 1, L0803: 1,	H0684: 1 and H0670: 1.	L0665: 7, L0747: 7,	L0662: 6, L0766: 6,	L0655: 5, L0659: 5,	S0126: 5, L0717: 4,	H0370: 4, L0763: 4,	L0770: 4, L0646: 4,	H0521: 4, L0748: 4,	S0360: 3, H0009: 3,	S0142: 3, S0344: 3,	L0771: 3, L0774: 3,	L0775: 3, L0663: 3,	L0664: 3, L0740: 3,	L0751: 3, L0750: 3,		H0265: 2, H0657: 2,	S0418: 2, S0420: 2,	S0045: 2, T0039: 2,	H0024: 2, T0010: 2,	H0413: 2, S0144: 2,	S0210; 2, L0667; 2,	L0372: 2, L0642: 2,	L0765: 2, L0653: 2,			L0731: 2, L0599: 2,	H0543: 2, L0615: 1,
Lys-31 to Gly-36.		Phe-15 to Ser-22.																				•					
		3827																									
		78 - 269	,						-						,											A-10-17-	
		1652			,										-												
	•	HOPJU10R																									
		HOPJU10																									

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H0556: 1, H0295: 1,	S0114: 1, H0656: 1,	.0778: 1, S0282: 1,	H0255: 1, H0661: 1,	H0402: 1, S0354: 1,	S0358: 1, S0376: 1,	H0351: 1, S0222: 1,	H0600: 1, H0586: 1,	H0333: 1, H0250: 1,	F0082: 1, H0318: 1,	H0421: 1, H0052: 1,	.0738: 1, H0327: 1,	H0051: 1, H0083: 1,	S0003: 1, S0022: 1,	S0214: 1, H0092: 1,	F0023: 1, L0483: 1,	0006: 1, H0030: 1,	.0628: 1, H0181: 1,	H0169: 1, H0090: 1,	H0058: 1, L0351: 1,	0041: 1, H0494: 1,	S0015: 1, L0065: 1,	S0426: 1, L0640: 1,	0769: 1, L0772: 1,	0641: 1, L0374: 1,	.0764: 1, L0773: 1,	.0648: 1, L0626: 1,	.0768: 1, L0649: 1,	0784: 1, L0378: 1,	
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L0807: 1, L0657: 1, L0656: 1, L0783: 1, S0052: 1, S0428: 1, L0438: 1, H0547: 1, H0690: 1, H0670: 1, H0660: 1, H0672: 1, H0522: 1, H0187: 1, H0576: 1, S0027: 1, S0206: 1, L0743: 1, L0757: 1, L0605: 1, L0590: 1, L0591: 1, L0581: 1, L0595: 1, S0026: 1, H0665: 1, H0667: 1, H0542: 1, H0667: 1, H0542: 1,	H0445: 13, H0255: 11, L0666: 7, H0575: 5, H0059: 4, S0344: 4, L0655: 4, H0521: 4, H0522: 4, L0748: 4, L0751: 4, H0556: 3, S0278: 3, H0013: 3, H0181: 3, H0617: 3, S0142: 3, H0658: 3, H0660: 3, L0439: 3, H0423: 3, S0116: 2, H0341: 2, S0360: 2, H0580: 2, H0581: 2, H0014: 2, H0087: 2,
	Arg-5 to His-22, Ser-59 to Ala-69.
	3828
	1 - 207
	1653
	HOPJX48R
	HOPJX48

L0663: 2, L0664: 2, L0665: 2, H0684: 2, L0741: 2, L0743: 2, H0170: 1, H0171: 1, H0265: 1, H0583: 1,	H0657: 1, H0656: 1, L0470: 1, H0254: 1, H0664: 1, H0662: 1, S0420: 1, S0408: 1,	H0593: 1, H0392: 1, H0613: 1, H0333: 1, L0622: 1, H0101: 1, H0250: 1, H0427: 1,	L0021: 1, H0253: 1, S0346: 1, H0421: 1, H0596: 1, H0150: 1,	H0620: 1, H0024: 1, H0428: 1, H0553: 1, H0169: 1, H0674: 1,	S0366: 1, H0163: 1, H0040: 1, H0616: 1, H0063: 1, H0026: 1,	H0517: 1, L0640: 1, L0770: 1, L0769: 1, L0761: 1, L0773: 1,	L0559: 1, L0659: 1, L0790: 1, H0144: 1, H0593: 1, H0690: 1, H0700: 1 H0606: 1	H0187: 1, L0744: 1,
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S0031: 1 and H0543: 1.			AR096: 4, AR089: 3,	AR061: 1, AR055: 1,	Asn-102 to Cys-109, AR060: 1, AR104: 1	H0684: 2 and L0731:	1.														•	H0494: 6, H0556: 5,	H0265: 3, H0656: 3,	H0618: 3, H0295: 2,	H0255: 2, H0392: 2,	H0575: 2, H0253: 2,	H0052: 2, H0024: 2,	H0617: 2, H0087: 2,
		Pro-35 to Arg-48.	Arg-19 to Tyr-24,	Asp-75 to Glu-87,	Asn-102 to Cys-109,	Ser-113 to Lys-118,	Tyr-154 to Ser-169.	Leu-39 to Ser-51.	Ser-50 to Pro-57.	Asn-80 to Gly-86.	Pro-6 to Thr-34,	Asp-57 to Gly-62,	Gly-77 to Glu-83,	Lys-108 to Asp-116,	Met-145 to Arg-159.	Ser-72 to Ala-78,	Asp-94 to Gly-100,	Thr-104 to Asp-111,	Ser-117 to Arg-133,	Glu-138 to Lys-144,	Lys-158 to Asp-165.	Ser-33 to Pro-42,	Lys-53 to Cys-61.					
	3829	3830	3831					3832	3833	3834	3835					3836						3837						
	273 - 395	2 - 163	2 - 676					26 - 232	3 - 191	1 - 456	1 - 579					1 - 663						3 - 455						
	1654	1655	1656					1657	1658	1659	1660					1991						1662						
,	HOPJY50R	HOPJZ59R	HOPKA06R	,				HOPKC65R	HOPKD31R	HOPKG16R	HOPKG47 HOPKG47R					HOPKG83R						HOPKK38R						
	HOPJY50	HOPJZ59	HOPKA06					HOPKC65	HOPKD31	HOPKG16	HOPKG47					HOPKG83						HOPKK38						

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0565.2 H0547.2	H0521: 2, L0744: 2,	L0439: 2, H0136: 2,	3: 2, H0224: 1,	H0225: 1, H0585: 1,	4: 1, H0341: 1,	H0484: 1, H0483: 1,	1: 1, S0418: 1,	4: 1, S0408: 1,	7: 1, S0045: 1,	il: 1, H0550: 1,	H0586: 1, H0587: 1,	7: 1, H0643: 1,	H0257: 1, H0559: 1,	5: 1, H0486: 1,	6: 1, T0048: 1,	T0071: 1, H0309: 1,	10041: 1, H0081: 1,	H0050: 1, H0012: 1,	.0: 1, H0051: 1,	8: 1, H0071: 1,	3: 1, H0354: 1,	4: 1, H0266: 1,	H0179; 1, H0271: 1,	H0292: 1, H0428: 1,	4: 1, H0181: 1,	H0135: 1, H0090: 1,	H0063: 1, H0488: 1,	H0433: 1, H0100: 1,	70041: 1, S0440: 1,
950 I	H052	L043	H054	H022	S011 ²	H048	L90H	S035	8000	H026	H058	H049	H025	H048	S034	T007	H004	H005	H062	S0388: 1	H0083: 1	H0594:	H017	H029	H042	H013	900H	H043	T004
				,																									
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S0142: 1, H0538: 1, L0769: 1, L0764: 1, L0803: 1, L0809: 1, H0593: 1, H0683: 1, H0684: 1, H0435: 1, S0044: 1, L0747: 1, S0031: 1, H0445: 1, L0593: 1 and L0601: 1.			L0803: 6, L0731: 4,	S0440: 3, L0662: 3,	L0809: 3, L0665: 3,	S0276: 3, H0486: 2,	H0318: 2, L0794: 2,	L0805: 2, L0776: 2,	L0663: 2, H0684: 2,	L0740: 2, L0759: 2,	L0592: 2, H0624: 1,	L0448: 1, H0341: 1,	S0282: 1, H0663: 1,	S0360: 1, H0580: 1,	L0468: 1, H0587: 1,	H0427: 1, H0575: 1,	S0010: 1, L0471: 1,	H0644: 1, H0383: 1,	H0169: 1, L0456: 1,	H0090: 1, H0264: 1,
	Gly-63 to Ala-69, Gly-104 to Leu-110, Gly-130 to Gly-136.																			
	3838	3839	3840		,															
c	2 - 460	22 - 483	170 - 319																4	
	1663	1664	1665		·															
	HOPKN14R	HOPKN67R	HOPKO04 HOPKO04RA																	
	HOPKN14	HOPKN67	HOPKO04																	

H0412: 1, H0561: 1, S0150: 1, S0002: 1, H0529: 1, L0638: 1, L0649: 1, L0372: 1, L0649: 1, L0783: 1, L0789: 1, L0791: 1, H0519: 1, S0380: 1, H0522: 1, H0436: 1, L0757: 1, L0757: 1, L0559: 1, H0542: 1, H0543: 1 and H0542: 1,						L0439: 15, L0666: 8,	L0638: 3, L0805: 3,	L0664: 3, L0758: 3,	L0592: 3, S0010: 2,	L0770: 2, L0438: 2,	H0624: 1, H0170: 1,	S6024: 1, H0441: 1,	S0414: 1, H0052: 1,	H0572: 1, S6028: 1,
			Ser-19 to Arg-29, Asp-37 to Val-43, Ala-75 to Leu-80,	Thr-96 to Arg-111.										
	3841	3842	3843		3844	3845								
·	1 - 405	282 - 536	19 - 402	,	1-519	3 - 173								
	1666	1667	1668		1669	1670								
	HOPKO61R	HOPKP45R	HOPKQ20R	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	HOPKQ82R	HOPKR56R								
	HOPKO61	HOPKP45	НОРКQ20		HOPKQ82	HOPKR56								

H0688: 1, H0616: 1, L0769: 1, L0768: 1, L0803: 1, L0774: 1, L0776: 1, L0659: 1, L0792: 1, H0519: 1, H0684: 1, L0745: 1, L0747: 1, L0756: 1, L0747: 1, L0756: 1, L0786: 1, L0753: 1, L0731: 1, L0759: 1 and L036: 1.			L0794: 16, L0809: 6, S0360: 4, H0617: 3, L0803: 3, S0114: 2, H0288: 2, H0494: 2, L0375: 2, L0731: 2, L0588: 2, H0484: 1, S0420: 1, H0637: 1, H0441: 1, H0652: 1, T0109: 1, S0010: 1, H0428: 1, H0428: 1, H0271: 1, H0428: 1, H0271: 1, H0424: 1, H0181: 1, H0124: 1, S0368: 1, S0440: 1, S0438: 1, S0440: 1,
·		Gly-1 to Val-7.	Pro-7 to Trp-14.
	3846	3847	3848
	2 - 274	2 - 136	237 - 551
	1671	1672	1673
	HOPKU33R	HOVBH23R	HOVBK37R
	HOPKU33	HOVBH23	HOVBK37

S0144: 1, S0142: 1, S0344: 1, L0637: 1, L5566: 1, L0761: 1, L0764: 1, L0648: 1, L0765: 1, L0364: 1, L0766: 1, L5574: 1, L0805: 1, L0783: 1, L0647: 1, L0789: 1, L0657: 1, H0520: 1, H0547: 1, H0648: 1, S0380: 1, H0521: 1, H0555: 1, S3012: 1, L0748: 1, L0779: 1, L0780: 1, L0757: 1, L0780: 1, L0757: 1,				S0360: 2, H0497: 2, H0333: 1, H0004: 1, H0428: 1, H0674: 1, S0422: 1, L0763: 1, L0803: 1, H0648: 1 and S0276: 1.			
	His-7 to Lys-20.	Glu-13 to Trp-32, Pro-34 to Asn-45.			Gly-1 to Glu-7, Gly-29 to Ala-36.		Lys-63 to Ser-69,
	3849	3850	3851	3852	3853	3854	3855
	3 - 86	144 - 404	41 - 349	342 - 524	2 - 127	395 - 580	3 - 578
	1674	1675	1676	1677	1678	1679	1680
	HOVBK49R	HOVBS15R	HOVBX41R	HOVCL23R	HOVCN03R	HOVCO26R	HOVCU89R
	HOVBK49	HOVBS15	HOVBX41	HOVCL23	HOVCN03	HOVCO26	HOVCU89

4													
		H0615: 2, L0748: 2, H0656: 1, S0007: 1, H0486: 1, H0041: 1, H0355: 1, S0250: 1, S0003: 1, H0688: 1, H0428: 1, H0622: 1, T0042: 1, L0768: 1, L0657: 1, L0526: 1, H0702: 1, L0565: 1, H0747: 1, H0519: 1, S0152: 1, S0390: 1, L0745: 1, L0749: 1, L0779: 1, L0588: 1,	LOCOC: 1 and LOCOC: 1.										
Tyr-95 to His-102, Tyr-105 to Leu-111.	Ser-15 to Tyr-21, Gly-32 to Arg-37.			Ile-32 to Arg-37.						Asp-1 to Lys-6.			Pro-1 to Tyr-8,
, :	3856	3857	3858	3859	3860	3861	3862	3863	3864	3865	3866	3867	3868
4	1 - 471	2 - 226	333 - 551	53 - 220	110 - 289	34 - 204	1 - 270	37 - 498	24 - 257	253 - 393	92 - 184	74 - 154	3 - 365
ı z	1681	1682	1683	1684	1685	1686	1687	1688	1689	1690	1691	1692	1693
-	HOVCV33R	HOVCW45R	HOVCY68R		HOVDB43R	HOVDB61 HOVDB61R	HOVDB62R	HOVDB65 HOVDB65R	HOVDD26 HOVDD26R	HOVDE46 HOVDE46R	HOVDG60 HOVDG60R	HOVDG71 HOVDG71R	HOVDH09 HOVDH09R
	HOVCV33	HOVCW45	HOVCY 68		HOVDB43	HOVDB61	HOVDB62	HOVDB65	HOVDD26	HOVDE46	HOVDG60	HOVDG71	HOVDH09

				L0794: 10, L0803: 7,	L0/4/: 6, H065/: 5, H0597: 4 H0617: 4	1.0764: 4, 1.0809: 4,	L0758: 4, L0759: 4,	L0800: 3, L0804: 3,	L0775: 3, H0659: 3,	H0543: 3, H0231: 2,	L0471: 2, H0673: 2,	H0674: 2, L0763: 2,	L0770: 2, L0769: 2,	L0768: 2, L0649: 2,	L0375: 2, L0776: 2,	H0658: 2, L0750: 2,	L0779: 2, L0755: 2,	L0731: 2, L0757: 2,	L0596: 2, L0588: 2,	S0026: 2, H0170: 1,	H0483: 1, H0661: 1,	H0402: 1, H0459: 1,	S0360: 1, H0639: 1,	L0717: 1, H0392: 1,	H0607: 1, H0333: 1,	H0486: 1, H0318: 1,
Gln-14 to Gln-19,	Arg-25 to Glu-37, Asn-44 to Arg-50,	Glu-67 to Leu-75,	1111-103 to GIY-114.			,																				
,		ı	3869	3870																						
			43 - 348	3 - 233																		,				
			1694	1695																						
			HOVDH75R	HOVDU91 HOVDU91R																						
			HOVDH75	HOVDU91																			9			

H0251: 1, H0184: 1, H0045: 1, H0014: 1, S0388: 1, S0051: 1, H0594: 1, H0188: 1, H0687: 1, L0052: 1, H0181: 1, H0428: 1, H0181: 1, H0647: 1, S0372: 1, H0647: 1, S0144: 1, S0002: 1, H0026: 1, L0761: 1, L0627: 1, L0648: 1, L0659: 1, L0656: 1, L0659: 1, L0666: 1, L0659: 1, L0666: 1, L0653: 1, L0666: 1, L0663: 1, L0665: 1, S0428: 1, H0689: 1, H0670: 1, H0539: 1, S0428: 1, H0645: 1, L0751: 1, L0777: 1, L0751: 1, L0777: 1, L0752: 1, H0445: 1, L0608: 1, L0595: 1 and	L0752: 3, L0731: 3, L0747: 2, L0753: 2, H0265: 1, S0116: 1, S0420: 1, H0428: 1, L0769: 1, L0767: 1,
	Ile-12 to Gln-17.
	3871
,	60 - 293
	1696
	HOVDV70R
	HOVDV70

																												
L0766: 1, L0775: 1,	L0776: 1, H0555: 1,	L0742: 1, L0748: 1,	L0757: 1 and L0759: 1.	H0428: 1 and S3014: 1.	H0428: 2				S0474: 66, L0439: 16,	H0547: 15, L0748: 15,	L0731: 10, S0360: 9,	L0770: 9, S0408: 8,	S0358: 7, L0771: 7,	L0775: 7, L0747: 6,	L0592: 6, H0428: 5,	S0438: 5, L0659: 5,	L0664: 5, L0665: 5,	L0752: 5, L0757: 5,	H0506: 5, S0007: 4,	H0549: 4, S0440: 4,	L0769: 4, L0768: 4,	L0774: 4, L0663: 4,	H0519: 4, S0152: 4,	L0750: 4, L0779: 4,	L0755: 4, L0759: 4,	L0591: 4, L0595: 4,	S0444: 3, H0510: 3,	H0615: 3, H0551: 3,
				Tyr-22 to Ala-28.	Gly-40 to His-48.		Ala-20 to Gln-25.	Ser-7 to Trp-13, Phe-19 to Ala-25.																				
				3872	3873	3874	3875	3876	3877																			
				64 - 264	99 - 257	247 - 396	169 - 363	410 - 589	3 - 143												-		•					
				1697	1698	1699	1700	1701	1702																			
٠				HOVDW60 HOVDW60R	HOVDZ66R	HOVEA43R	HOVEB25R	HOVEE84R	HOV EE92R																			
				HOVDW60	99ZQAOH	HOVEA43	HOVEB25	HOVEE84	HOVEE92																			

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H0100: 3, L0598: 3,	L0638: 3, L0766: 3,	S0380: 3, L0594: 3,	H0341: 2, S0420: 2,	S0442: 2, H0722: 2,	.0717: 2, H0550: 2,	S0222: 2, H0587: 2,	H0574: 2, H0632: 2,	H0013: 2, H0575: 2,	H0581: 2, H0544: 2,	H0012: 2, H0687: 2,	H0628: 2, S0036: 2,	H0509; 2, L0637; 2,	.0764: 2, L0773: 2,		.0806: 2, L0783: 2,		H0684: 2, H0659: 2,	H0521: 2, L0745: 2,	.0756: 2, S0436: 2,		.0362: 2, S0194: 2,	H0543: 2, H0624: 1,	H0170: 1, H0171: 1,	H0717: 1, H0657: 1,	H0671: 1, H0663: 1,	H0664: 1, H0459: 1,	S0356: 1, S0410: 1,	H0637: 1, S0476: 1,	H0645: 1, S6026: 1,
		S	<u> </u>	S		S				<u>i-L-i</u>	<u>i-Li</u>	<u>i-L-i</u>		<u></u>	<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>	<u>;</u>	<u> </u>	1	<u> </u>	<u> </u>	<u> </u>	<u>; 11</u>	<u>ili</u>	<u>نىلىن</u>	<u>. 114</u>	S	i-l-i	1
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				,																									
S0300: 1, H0369: 1,	H0431: 1, H0586: 1,	H0497: 1, H0331: 1,	L0021: 1, S0049: 1,	H0184: 1, L0738: 1,	H0545: 1, H0046: 1,	H0563: 1, H0123: 1,	H0050: 1, L0471: 1,	H0620: 1, H0014: 1,	S0388: 1, S0051: 1,	H0356: 1, H0266: 1,	S0003: 1, H0039: 1,	H0622: 1, T0006: 1,	H0617: 1, S0366: 1,	H0090: 1, H0040: 1,	H0616: 1, S0038: 1,	T0041: 1, H0494: 1,	S0014: 1, S0150: 1,	L0369: 1, L0640: 1,	L0763: 1, L5565: 1,	L0761: 1, L0373: 1,	L0372: 1, L0646: 1,	L0521: 1, L0662: 1,	L0804: 1, L0651: 1,	L0652: 1, L0776: 1,	L0527: 1, L0657: 1,	L0526: 1, L0384: 1,	L0809: 1, L0545: 1,	L0790: 1, L0792: 1,	H0144: 1, L0438: 1,
											<u> </u>					•	<u> </u>												
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H0593: 1, S0126: 1, H0682: 1, H0660: 1, H0648: 1, S0328: 1, H0539: 1, S0378: 1, S0350: 1, H0696: 1, S0028: 1, S0206: 1, L0740: 1, L0777: 1, L0758: 1, S0434: 1, H0217: 1, S0192: 1,		L0750: 11, L0740: 7,	L0/4/: 5, H0341: 4, 1 0757: 4 H0641: 3	LO757. 4, 110041. 3, I 0766. 3, 1 0748. 3	L0754: 3, L0752: 3,	L0593: 3, H0171: 2,	S0134: 2, S0442: 2,	S0010: 2, H0428: 2,	H0538: 2, L0770: 2,	L0774: 2, L0776: 2,	L0517: 2, L0438: 2,	H0519: 2, H0684: 2,	L0777: 2, L0755: 2,	L0731: 2, L0758: 2,	S0026: 2, H0170: 1,	T0002: 1, S0114: 1,	S0116: 1, H0663: 1,	S0358: 1, S0360: 1,	S0007: 1, S0046: 1,
		Gln-4 to Gln-10,	Lys-35 to Ala-60,	110-00 00 00-01															
	3878	3879																	
	288 - 497	1 - 393																	
	1703	1704																	
	HOVEF34R	HOVEF81R																	
	HOVEF34	HOVEF81																	

р		
H0411: 1, H0592: 1, H0486: 1, H0013: 1, L0022: 1, H0575: 1, H0581: 1, H0052: 1, H0620: 1, H0594: 1, H00398: 1, S0036: 1, H0040: 1, H0038: 1, L0475: 1, L0520: 1, L0662: 1, L0521: 1, L0662: 1, L0521: 1, L0652: 1, L0651: 1, L0652: 1, L0651: 1, H0650: 1, L0789: 1, H0660: 1, H0689: 1, H0670: 1, S0330: 1, H0539: 1, H0436: 1, L0605: 1, H0436: 1, L0605: 1, L0366: 1, R0605: 1, H0542: 1 and		L0809: 8, L0794: 5, L0439: 5, L0758: 5, H0617: 4, L0438: 4, L0754: 4, L0731: 4,
	Ser-9 to Gly-17, Ser-20 to Pro-26, Arg-32 to His-41.	
	3880	3881
	3 - 290	160 - 468
	1705	1706
; ,	HOVEG73 HOVEG73R	HOVEJISR
	HOVEG73	HOVEJ15

:	
H0295: 3, L0776: 3, H0619: 2, H0441: 2, H0253: 2, H0545: 2, H0188: 2, H0687: 2, H0428: 2, H0687: 2, H0213: 2, H0631: 2, L0769: 2, L0803: 2, L0792: 2, H0539: 2, L0748: 2, L0745: 2, H0717: 1, H0549: 1, S0222: 1, H0333: 1, H0318: 1, S0049: 1, L0738: 1, H0046: 1, H0649: 1, S0142: 1,	L0763: 1, L0642: 1, L0764: 1, L0771: 1, L0649: 1, L0651: 1, L0632: 1, L0805: 1, L0790: 1, H0144: 1, H0723: 1, H0682: 1, H0696: 1, H0555: 1, S0028: 1, L0742: 1, L0744: 1 and L0752: 1.
	Ser-13 to Val-21, Thr-45 to Ser-50.
	3882 3883 3884 3885
,	60 - 209 146 - 265 1 - 168 1 - 102
	1707 1708 1709 1710
	HOVEL51R HOVEN79R HOVEN86R HOVEP45R
	HOVEL51 HOVEN79 HOVEN86 HOVEN86

	L0803: 7, L0748: 4, L0439: 4, L0804: 3, L0750: 3, L0756: 3, H0024: 2, L0438: 2, L0747: 2, L0779: 2, H0624: 1, H0171: 1, H0661: 1, S0354: 1, H0441: 1, H0331: 1, H0441: 1, L0731: 1, H0428: 1, H0040: 1, L0770: 1, L0776: 1, L0809: 1, L0665: 1, H0547: 1, L076: 1, L0809: 1, L0665: 1, L0809: 1, L0776: 1, L0809: 1, L0776: 1, L0809: 1, L0776: 1, L0809: 1, L0776: 1, L0877: 1, L0780: 1,									
	Lys-5 to Ser-18.	Val-2 to Ser-7.				Ser-5 to Gly-10, Glu-18 to Glu-32,	Ala-39 to Lys-46, Ser-89 to Arg-96,	Pro-141 to Ala-151,	Ser-162 to Gln-169.	Ala-18 to Ser-24, Gly-55 to Thr-60.
3886	3887	3888	3889	3890	3891	3892				3893
2 - 244	175 - 405	3 - 152	20 - 130	2 - 355	1 - 396	1 - 576				1 - 186
1711	1712	1713	1	1715	1716	1717				1718
HOVEW80 HOVEW80R	HOVEY58R	HOVFD79R	1 .	HOVJH27RA	HOVJI53R	HOVJJ09R				HOVJR56R
HOVEW80	HOVEY58	HOVFD79	HOVJF86	HOVJH27	HOVJI53	60ffAOH				HOVJR56

		,																						7			
																								·			
								L0157: 2, H0620: 2,	L0666: 2, S0001: 1,	I 0717· 1 H0549· 1	S0222: 1, H0581: 1,	H0194: 1, H0015: 1,	H0399: 1, H0271: 1,	H0688: 1, H0428: 1,	H0124: 1, L0637: 1,	H0672: 1, L0439: 1,	L0750: 1 and H0423: 1.	r	,								
Tyr-44 to Asp-49,	Pro-132 to Leu-139, Cvs-168 to His-174.	Ala-8 to Gln-14,	Arg-40 to Glu-45.	Pro-47 to Lys-53,	Leu-93 to Lys-102,	Tyr-105 to Gln-110,	Arg-115 to Lys-124.	Ala-1 to His-13,	Leu-73 to Leu-79.									Ala-20 to Val-38,	Cys-43 to Thr-60,	Arg-91 to Lys-97.	Gln-15 to Leu-20,	Pro-37 to Thr-44.	Cys-23 to His-29,	Ser-74 to Glu-91.	Gln-8 to Tyr-14,	Pro-20 to 1 nr-26.	
3894		3895		3896				3897				·						3898			3899	•	3900		3901		3902
49 - 684		74 - 301		199 - 570				1 - 366										2 - 487			1 - 168		2 - 406		323 - 511		2 - 586
1719		1720		1721				1722										1723			1724		1725		1726		1727
HOVJU75R		HOVJW17R		HOVJY68R				HOVKB02R										HOVKE66R			HOVKF20R		HOVKG18R		HPAMB11R		HPAMB60R
HOVJU75		HOVJW17		HOVJY68				HOVKB02			-						- Chron	HOVKE66			HOVKF20		HOVKG18		HPAMB11		HPAMB60

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L0439: 11, L0747: 8,	H0624: 6, L0759: 6,	L0779: 5, L0758: 5,	H0013: 4, L0803: 4,	L0754: 4, H0171: 3,	L0666: 3, L0756: 3,	L0752: 3, L0755: 3,	L0591: 3, L0608: 3,	H0170: 2, H0650: 2,	H0341: 2, H0663: 2,	S0360: 2, S0003: 2,	L0769: 2, L0796: 2,	L0766: 2, L0649: 2,	L0806: 2, H0696: 2,	S0028: 2, L0740: 2,	L0750: 2, L0777: 2,	S0436: 2, L0361: 2,	S0298: 1, S0418: 1,	S0444: 1, S0408: 1,	H0733: 1, H0734: 1,	S0300: 1, S0220: 1,	H0497: 1, H0333: 1,	H0270: 1, H0575: 1,	H0036: 1, H0590: 1,	H0596: 1, H0050: 1,	L0471: 1, H0015: 1,	S0388: 1, S6028: 1,	H0266: 1, H0328: 1,	H0622: 1, H0708: 1,	H0591: 1, H0040: 1,
Leu-12 to Ser-21.																													
3903																	******	***************************************		-									
2 - 196																													,
1728																													
HPAMB62 HPAMB62R																										-			
HPAMB62				*																									

H0087: 1, H0412: 1, H0059: 1, S0112: 1, H0625: 1, S0440: 1, S0150: 1, S0422: 1, L0598: 1, H0529: 1, L0770: 1, L0761: 1, L0662: 1, L0768: 1, L0774: 1, L0775: 1, L0774: 1, L0659: 1, L0809: 1, L0659: 1, L0809: 1, L0659: 1, H0642: 1, H0659: 1, H0682: 1, H0659: 1, H0682: 1, H0659: 1, H0682: 1, H0659: 1, H0682: 1, H0659: 1, L0757: 1, H0445: 1, S00394: 1, L0749: 1, L0594: 1, S0026: 1, L0594: 1, S0026: 1, H0423: 1, S0412: 1 and H0423: 1, S0412: 1 and					S0360: 15, S0358: 14,
HHSCSSCHHHSCCCCCCSSHHH.					Arg-1 to Gly-6, S
	2 - 439 3904	134 - 334 3905	8 - 631 3906	1 - 669 3907	18 - 464 3908
-	HPAMB93R 1729	HPAMC04R 1730	├	HPAMC27R 1732	HPAMC90 HPAMC90R 1733
	HPAMB93	HPAMC04	HPAMC19	HPAMC27	HPAMC90

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L0794: 12, L0747: 12,	H0696: 11, H0341: 10,	H0670: 10, H0657: 9,	S0422: 9, H0659: 8,	S0114: 7, H0656: 7,	S0408: 7, S0007: 7,	H0486: 7, H0543: 7,	S0444: 6, L0471: 6,	S0126: 6, H0658: 6,	S0378: 6, S0406: 6,	S0027: 6, H0038: 5,	H0040: 5, L0770: 5,	L0517: 5, H0648: 5,	S0404: 5, L0752: 5,	H0423: 5, H0624: 4,	H0171: 4, H0716: 4,	S0116: 4, S0410: 4,	H0545: 4, H0373: 4,	H0674: 4, L0520: 4,	L0763: 4, L0662: 4,	L0775: 4, L0493: 4,	L0518: 4, L0809: 4,	L0519: 4, S3012: 4,	H0445: 4, L0361: 4,	H0685: 3, T0049: 3,	S0420: 3, H0580: 3,	S0132:-3, T0109: 3,	H0013: 3, S0346: 3,	H0597: 3, H0615: 3,	H0616: 3, H0087: 3,
Pro-13 to Thr-20.			,																									,	
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H0494: 3, S0440: 3,	.0769: 3, L0761: 3,	.0764: 3, L0521: 3,	0803: 3, L0776: 3	.0537: 3, H0144: 3,	H0682: 3, S0380: 3,	50028: 3, L0748: 3,	0731: 3, H0422:	H0394: 2, T0002: 2,	0159: 2, S0342: 2	H0717: 2, S0134: 2,	0484: 2, H0661:	0638: 2, S0442: 2	H0637: 2, H0619: 2,	H0351: 2, H0362: 2,	0280: 2, T0048: 2	H0009: 2, H0012: 2,	H0014: 2, H0688: 2,	H0617: 2, H0413: 2,	J0065: 2, S0438: 2,	0210: 2, L0767: 2	0522: 2, L0806: 2	L0653: 2, L0526: 2,	0546: 2, L0530: 2	0532: 2, L0666: 2	.0665: 2, H0547: 2,	H0689: 2, H0672: 2,	H0651: 2, S0328: 2,	S0330: 2, H0710: 2,	S0152: 2, H0521: 2,
H	<u> </u>	<u> 1</u>	<u> </u>	<u> </u>	H	<u>X</u>	<u>,</u>	H	王	H	H	<u>II</u>	H	H	<u>X</u>	#	Ш	H	<u> </u>	<u>S</u>	<u> </u>	<u>1</u>	<u> </u>		P	耳	H	<u>)S</u>	S
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0032:	.0742: 2, L0750: 2	.0588: 2, L0603: 2	S0026: 2, H0170:	H0395: 1, H0713: 1	S0402: 1, S6024: 1,	10294	0110:	H0402: 1, H0305:	S0418: 1, H0722:	0046	S0476: 1, S0300: 1	0222	10370	H0404: 1, H0592:	10333	L0623: 1, L0586:	F0060: 1, H0098:	,0563	H0581: 1, H0421:	H0251: 1, H0309:	10231	H0150: 1, H0123:	,0163	0399	10266	S0334: 1, S0312:	0428	T0006: 1	H0553: 1, H0606:
): 2, S	2; 2, L	3: 2, L	5: 2, H	5: 1, F	: 1, S	5: 1, F	: 1, S	2: 1, F	: 1, H	3: 1, S	i: 1, S	2: 1, S	5: 1, F	4: 1, F	7:1,F	3: 1, L): 1, H	3: 1, I	l: 1, F	I: 1, F	5: 1, F): 1, F): 1, L	: 1, H	4: 1, F	: 1, S	1, H	3: 1, T	3: 1, F
S0390: 2, S0032: 2	L0742	L0588	S0026	H039	S0402	H029	S0218	H040	S0418	H072	S0476	H046	H0385: 1, H0370: 1	H040	H049	L0623	T0060	H0318	H058	H025	H059(H015(H0620: 1, L0163:	S0051: 1, H0399:	H0354: 1, H0266:	S0334	S0214: 1, H0428:	L0483: 1,7	H055
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H0212: 1, H0124: 1,	H0090: 1, H0059: 1,	T0004: 1, T0041: 1,	10560: 1, H0625: 1,	10561: 1, H0366: 1,	10509: 1, H0633: 1,	0472: 1, H0647: 1,	H0646: 1, H0649: 1,	0142: 1, H0529: 1,	0451: 1, L0625: 1,	0640: 1, L0501: 1,	3904: 1, L0771: 1,	0560: 1, L5569: 1,	5574: 1, L5564: 1,	0499: 1, L0651: 1,	0555: 1, L0514: 1,	L0783: 1, L0529: 1,	0791: 1, L0664: 1,	0374: 1, H0691: 1,	10684: 1, H0435: 1,	H0660: 1, H0666: 1,	10539: 1, H0524: 1,	H0704: 1, S0044: 1,	0146: 1, H0134: 1,	H0436: 1, S0392: 1,	3014: 1, L0753: 1,	L0755: 1, L0759: 1,	0031: 1, S0260: 1,	H0444: 1, H0595: 1,	.0599: 1, L0608: 1,
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H0653: 1, S0242: 1, S0194: 1, S0196: 1,	H0542: 1, H0506: 1 and H0352: 1.				L0731: 9, L0653: 8,	L0757: 6, L0809: 5,	L0747: 5, S0418: 4,	S0360: 4, H0188: 4,	S0404: 4, L0779: 4,	S0040: 3, H0370: 3,	H0040: 3, L0774: 3,	S0434: 3, S0442: 2,	H0575: 2, H0252: 2,	S0440: 2, L0374: 2,	L0773: 2, H0435: 2,	S0406: 2, L0748: 2,	L0740: 2, L0754: 2,	L0746: 2, L0758: 2,	L0581: 2, H0624: 1,	H0686: 1, S0180: 1,	H0661: 1, S0358: 1,	S0476: 1, L0717: 1,	H0549: 1, H0455: 1,	H0586: 1, H0632: 1,	S0280: 1, H0599: 1,	H0118: 1, H0235: 1,
		Glu-10 to Phe-17,	Phe-25 to Leu-32, Thr-38 to Tvr-44	Gln-81 to Thr-88.	Gly-60 to Phe-66.											,										
		3909			3910																					
		1 - 504			2 - 277	٠																				
		1734			1735																					
		HPAMD56R			HPAME35R																					
		HPAMD56			HPAME35																					

H0597: 1, H0545: 1, T0003: 1, H0510: 1, S0314: 1, H0039: 1, L0194: 1, T0086: 1, H0606: 1, H0032: 1, H0674: 1, H0708: 1, H0598: 1, H0634: 1, H0599: 1, S0344: 1, L0763: 1, L4497: 1, L0763: 1, L4497: 1, L0771: 1, L0364: 1, L0771: 1, L0364: 1, L0657: 1, L0806: 1, L0657: 1, L0806: 1, L0657: 1, H0689: 1, H0690: 1, H0689: 1, H0690: 1, H0689: 1, H0670: 1, S0330: 1, S0152: 1, S0330: 1, S0152: 1, S0330: 1, L0744: 1, L0750: 1, L0780: 1, L0753: 1, H0665: 1, H0667: 1 and	S0196; 1. H0663: 1 1.0438: 1	and H0682: 1.	
	1 xs-1 to 1 en-12	,	Glu-1 to Gly-8.
	3911		3912
	184 - 492	77.	19-513
	1736	02/1	1737
	HPAME58R	NICCIAIN III	HPAMF16R
	HPAME58	OCTIVICAL IN	HPAMF16

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L0752: 12, L0748: 8,	L0766: 5, L0599: 5,	H0617: 4, L0764: 4,	H0081: 3, L0774: 3,	L0806: 3, L0776: 3,	L0749: 3, L0750: 3,	S0444: 2, S0408: 2,	H0392: 2, H0150: 2,	H0494: 2, H0521: 2,	L0756: 2, L0758: 2,	H0506: 2, H0352: 2,	H0265: 1, H0483: 1,	S0358: 1, L0021: 1,	H0108: 1, H0024: 1,	H0083: 1, S0366: 1,	H0090: 1, H0038: 1,	H0040: 1, T0041: 1,	L0763: 1, L0770: 1,	L3905: 1, L0772: 1,	L0644: 1, L0645: 1,	L0771: 1, L0775: 1,	L0651: 1, L0378: 1,	L0659: 1, L0666: 1,	L0665: 1, L0438: 1,	H0519: 1, H0682: 1,	H0670: 1, S0188: 1,	L0740: 1, L0747: 1,	L0777: 1, L0759: 1,	H0445: 1, L0596: 1,	L0604: 1 and H0542: 1.
Ser-35 to Gly-41,	Ser-71 to Met-80.	,																											
3913			,																										,
24 - 449	1	1																											
1738															•													,	
HPAMF38 HPAMF38R				,																									•
HPAMF38																													

									L0777: 5, L0766: 3,	L0803: 3, L0439: 3,	S0360: 2, L0598: 2,	L0666: 2, L0748: 2,	T0049: 1, S0134: 1,	S0116: 1, L0717: 1,	H0586: 1, H0486: 1,	H0575: 1, H0510: 1,	H0553: 1, H0560: 1,	S0422: 1, L0763: 1,	L0769: 1, L0521: 1,	L0767: 1, L0768: 1,	L0775: 1, L0663: 1,	S0374: 1, L0438: 1,	H0520: 1, H0682: 1,	S0328: 1, L0740: 1,	L0757: 1, S0192: 1 and	H0543: 1.		S0358: 8, L0777: 6,
		Lys-13 to Tyr-30, Arg-52 to Lys-57,	Ser-72 to Thr-79,	Thr-110 to Trp-115,	Leu-124 to Ala-130,	Leu-132 to Glu-138,	Asn-141 to Lys-162.	•															•			,	Pro-18 to Lys-24.	Thr-27 to Lys-37.
3914	3915	3916						3917	3918																		3919	3920
385 - 666	3 - 410	2 - 670						2 - 472	100 - 246																		2 - 190	327 - 509
1739	1740	1741						1742	1743																		1744	1745
HPAMG44 HPAMG44R	HPAMG54R	HPAMI11R					_	HPAMJ71R	HPAMQ47 HPAMQ47R																		HPAMQ76 HPAMQ76R	HPAMT47 HPAMT47R
HPAMG44	HPAMG54	HPAMI11						HPAMJ71	HPAMQ47																	-	HPAMQ76	HPAMT47

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556:	559:	754:	731:	254:	587:	545:	794:	750:	112: (638:	75	329;	545:	333:	013:	105:	196:	546:	157:	51:	14:	032:	673:	40.	764:	304:	.89	519:	690:
.0744: 4, H0656: 3,	.0766: 3, H0659: 3,	10436: 3, L0754: 3,	, LOJ	, HO	, H0	, HO	, L0	, LO	, S04	, H0	, S04	, HO	, HO	, H0	H0574: 1, H0013: 1	97,	H0581: 1, H0196: 1,	, Н0	,10	, SOC	, S02	, H0	, H0	, S0 ₄	, LO	L0803: 1, L0804: 1,	, TO	H0547: 1, H0519: 1	H0593: 1, H0690: 1
4:4	56:3	36: 3	47:3	26:3	77:2	36:2	50:2	4:2	38:2	70: 1	20: 1	4.1	45 : 1	86: 1	74: 1	50: 1	81:1	63: 1	57: 1	71: 1	36: 1	28: 1	66: 1	61:1	53: 1	33: 1	76: 1	47: 1	93: 1
1.07	1.07	H04	<u>107</u>	S00.) 	L0586: 2, H0545: 2,	H01	H01	907	H01	S04,	S04	700S	H05	H05	H02	H05	H02	H0457: 1, L0157: 1,	<u>7</u>	S03	H04	H01	H05	L07	<u>108</u>	1.07	H05	H05
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H0682: 1, H0435: 1, H0670: 1, H0666: 1, H0692: 1, S0328: 1, H0696: 1, L0751: 1, L0749: 1, L0756: 1, L0780: 1, L0757: 1, L0759: 1, H0543: 1, H0423: 1 and H0422: 1.			L0742: 11, L0747: 10,	L0769: 9, L0766: 9,	L0754: 8, L0751: 7,	L0777: 7, L0752: 7,	L0806: 6, L0776: 6,	L0743: 6, L0717: 4,	L0665: 4, L0750: 4,	S0360: 3, H0580: 3,	H0318: 3, H0052: 3,	L0471: 3, H0040: 3,	T0042: 3, H0547: 3,	H0682: 3, L0745: 3,	L0779: 3, L0759: 3,	L0593: 3, L0601: 3,	H0624: 2, H0556: 2,	S0045: 2, H0559: 2,	H0013: 2, H0530: 2,	H0046: 2, H0620: 2,	S0051: 2, T0010: 2,
,	Lys-59 to Tyr-70, Pro-109 to Lys-115.	Gln-34 to Asn-39.	Gly-1 to Arg-13,	Glu-37 to Lys-42,	Gly-45 to Gln-64.																
	3921	3922	3923																·		
	2 - 520	207 - 422	1 - 357																	1	
	1746	1747	1748																		
	HPAMU33R	HPAMV82R	HPAMW44 HPAMW44R																		
	HPAMU33	HPAMV82	HPAMW44																		

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02: 2,	559: 2,	292: 2,	740: 2,	596: 2,	193: 1,	563: 1,	638: 1,	58: 1,	519: 1,	550: 1,	392: 1,	257: 1,)40: 1,	156: 1,	618: 1,)10: 1,	194: 1,	150: 1,	292: 1,	123: 1,	553: 1,	673: 1,	674: 1,	269: 1,	494: 1,	50: 1,	763: 1,	761: 1,	545: 1,
H0083: 2, S0002: 2,	.0770: 2, L0659: 2,	H0520: 2, S0292: 2,	744: 2, LO	L0758: 2, L0596: 2,)49: 1, LO	01: 1, HO	H0306: 1, H0638: 1	S0420: 1, S0358: 1,	32: 1, HO	H0645: 1, H0550: 1,	S0222: 1, H0392: 1,	438: 1, HO	39: 1, TO	S0280: 1, H0156: 1,	575: 1, H0	H0253: 1, S0010: 1,	H0581: 1, H0194: 1	H0204: 1, H0150: 1	123: 1, H0	194: 1, TO	331: 1, HO	H0617: 1, H0673: 1,	H0169: 1, H0674: 1	390: 1, HO	H0623: 1, H0494: 1,	175: 1, S01	H0538: 1, L0763:	L0638: 1, L0761: 1	.0646: 1, L0645: 1
OH	T0.	HO	101	101	TO	SOC	H0.	20 <u>S</u>	S01	<u>ĎH</u>	S02	ĎΗ	<u>T</u> 0(S02	HO	HO	H0.	H0.	HO	[O]	<u>H</u>	ŎĦ	OH	ĎH H)H	707	HOH	<u>ro</u>	ĭ
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L0771: 1, L0803: 1, L0774: 1, L0775: 1, L0651: 1, L0657: 1, L0658: 1, L0545: 1, L0792: 1, L0663: 1, L0664: 1, H0144: 1, H0593: 1, S0126: 1, H0521: 1, H0522: 1, S0044: 1, S0406: 1, S0027: 1, L0741: 1, L0439: 1, L0755: 1, L0439: 1, L0755: 1, L0485: 1, L0603: 1, S0011: 1, H0668: 1,			L0493: 91, L0515: 29, L0509: 25, L0514: 21, L0803: 12, L0508: 8, L0604: 7, H0599: 6, L0809: 5, H0445: 5, L0800: 4, L0511: 4, L0362: 4, H0543: 4,
	Pro-1 to Cys-6, Ala-13 to Ala-19, His-22 to Lys-28, Ser-44 to Cys-53, Pro-56 to Gly-67.	Trp-19 to Ser-27, Pro-185 to Ser-195.	
	3924	3925	3926
	291 - 569	2 - 628	3 - 149
,	1749	1750	1751
	HPAMY45R	HPAMZ14R	HPAMZ15R
	HPAMY45	HPAMZ14	HPAMZ15

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H0657: 3, L0598: 3.	L0498: 3, L0805: 3,	L0780: 3, L0755: 3,	L0731: 3, L0759: 3,	L0591: 3, S0026: 3,	H0170: 2, H0373: 2,	H0038: 2, H0623: 2,	H0494: 2, H0560: 2,	H0561: 2, L0503: 2,	L0651: 2, L0653: 2,	L0776: 2, L0792: 2,	H0520: 2, H0555: 2,	S0206: 2, L0748: 2,	L0749: 2, L0756: 2,	L0779: 2, L0590: 2,	L0608: 2, H0668: 2,	H0422: 2, S0040: 1,	S0114: 1, S0134: 1,	S0218: 1, H0656: 1,	S0212: 1, S0360: 1,	H0489: 1, H0580: 1,	S0045: 1, S0476: 1,	H0431: 1, H0643: 1,	L0623: 1, H0486: 1,	H0069: 1, H0002: 1,	H0097: 1, H0274: 1,	S0474: 1, H0421: 1,	L0040: 1, H0024: 1,	S0003: 1, H0622: 1,	H0553: 1, H0032: 1,
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H0388: 1, H0400: 1, S0036: 1, H0090: 1, H0551: 1, H0264: 1, F0042: 1, H0625: 1, S0210: 1, H0529: 1, L0506: 1, L0506: 1, L0761: 1, L0506: 1, L0761: 1, L0794: 1, L0655: 1, L0794: 1, L0655: 1, L0794: 1, L0655: 1, L0794: 1, L0655: 1, L0794: 1, H0659: 1, L0793: 1, L0519: 1, L0517: 1, F0519: 1, H0648: 1, H0519: 1, H0648: 1, H0521: 1, H0648: 1, H0521: 1, H0696: 1, S0146: 1, S0390: 1, L0747: 1, L0753: 1, S0260: 1, H0444: 1, S0242: 1, S0194: 1,	S0424: 1.
	Ser-1 to Lys-25, Glu-71 to Ser-77, Glu-93 to Thr-99,
	3927
	3 - 677
	1752
	HPAMZ81R
	HPAMZ81

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							H0497: 5, S0002: 5,	H0529: 5, H0556: 4,	H0046: 3, L0455: 3,	T0042: 3, H0520: 3,	H0543: 3, H0265: 2,	H0657: 2, H0656: 2,	H0458: 2, S0358: 2,	H0486: 2, H0050: 2,	H0124: 2, H0591: 2,	H0494: 2, L0662: 2,	H0522: 2, L0740: 2,	.0751: 2, L0747: 2,	L0588: 2, L0605: 2,	H0667: 2, H0686: 1,	H0650: 1, H0664: 1,	H0125: 1, S0418: 1,	H0580: 1, S6014: 1,	H0257: 1, H0559: 1,	H0635: 1, H0427: 1,	H0575: 1, H0052: 1,	N0006: 1, L0471: 1,	H0373: 1, H0083: 1,
Arg-123 to His-134,	Pro-141 to His-146,	Thr-23 to Gln-35,	His-37 to Val-51,	Arg-70 to Arg-81,	Gln-108 to Asp-114,	Met-130 to Ser-140.	Ala-1 to Thr-6,	4,	Ile-77 to Ala-93,	10,	Thr-139 to Thr-153,	Thr-165 to Lys-187,	Ala-198 to Leu-203, H0458: 2, S0358: 2,	Ser-211 to Lys-226.	pates								,			<u> </u>		
		3928					3929																					
		2 - 514					1 - 720																					
		1753					1754																					
		HPANA05R					HPANA07R																					
		HPANA05					HPANA07																					

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H0266: 1, S0250: 1, S0022: 1, H0428: 1, H0031: 1, H0383: 1, H00212: 1, S0366: 1, S0036: 1, H0040: 1, H0634: 1, H0561: 1, S0210: 1, L0770: 1, L0761: 1, L0772: 1, L0641: 1, L0772: 1, L0657: 1, L0776: 1, L0657: 1, L0648: 1, L0657: 1, L0648: 1, L0750: 1, L0748: 1, L0750: 1, L0758: 1, L0750: 1, L0748: 1, L0750: 1, L0758: 1, L0691: 1, S0276: 1, H0423: 1, S0424: 1 and	20440: 1.						,	
	Gln-22 to Thr-31,	Gln-13 to Gly-28.		Leu-1 to Ser-8.		Lys-64 to Tyr-75,	Pro-114 to Lys-120, I eu-160 to Lys-169	LCU-100 to Lya-10/1
	3930	3931	3932	3933	3934	3935		
	2 - 376	494 - 730	2 - 247	255 - 446	2 - 412	1 - 666		
	1755	1756	1757	1758	1759	1760		
	HPANA28R	HPANA87R	HPANB32R	HPANC01R	HPANE49R	HPANE52R		
	HPANA28	HPANA87	HPANB32	HPANC01	HPANE49	HPANE52		

																													,
		L0752: 10, L0593: 9,	L0775: 8, L0588: 8,	L0666: 7, L0665: 7,	L0592: 7, L0595: 7,	L0363: 6, L0774: 6,	L0747: 6, L0362: 6,	H0422: 6, L0455: 5,	L0659: 5, H0539: 5,	H0170: 4, S0360: 4,	L0657: 4, H0547: 4,	L0749: 4, L0779: 4,	L0757: 4, H0657: 3,	H0412: 3, L0520: 3,	L0761: 3, L0646: 3,	L0375: 3, L0651: 3,	L0783: 3, H0144: 3,	H0520: 3, H0659: 3,	H0670: 3, H0648: 3,	L0740: 3, L0750: 3,	L0756: 3, L0731: 3,	L0759: 3, L0591: 3,	L0608: 3, H0662: 2,	S0376: 2, H0637: 2,	H0619: 2, L0717: 2,	S0280: 2, H0318: 2,	T0010: 2, H0040: 2,	H0413: 2, L0351: 2,	H0646: 2, L0763: 2,
Tyr-172 to Gln-177,	Pro-182 to Val-189.																												
		3936																											
		119 - 652																											
		1761			ŧ																								
		HPANE87R																											
		HPANE87																*											

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.0521: 2, L0784: 2,	.0655: 2, L0382: 2,	.0809: 2, L0664: 2,	H0682: 2, H0658: 2,	H0672: 2, L0439: 2,	.0755: 2, L0589: 2,	.0604: 2, S0424: 2,	10624: 1, H0686: 1	10685: 1, S0040: 1,	H0716: 1, H0341: 1,	H0580: 1, S0468: 1,	S6026: 1, H0351: 1,	10392: 1, L0623: 1,	'0060: 1, H0069: 1,	H0427: 1, T0048: 1,	.0071: 1, S0049: 1,	H0052: 1, L0471: 1,	0388: 1, S0051: 1,	0003: 1, T0006: 1,	L0055: 1, H0169: 1,	0036: 1, T0067: 1,	H0059: 1, H0494: 1,	H0560: 1, S0372: 1,	S0002: 1, L0371: 1,	J0637: 1, L0627: 1,	.0772: 1, L0764: 1,	.0662: 1, L0767: 1,	L0768: 1, L0649: 1,	4500: 1, L0650: 1,	.0378: 1, L0806: 1,
1	<u> </u>	<u> </u>	<u> </u>	<u>H</u>	1	<u>1</u>	<u> </u>	<u> </u>	<u>H</u>	<u>H</u>	<u>S</u>	<u>H</u>	H	<u>H</u>		<u> </u>	S	S	7	<u>S</u>	<u>H</u>	<u>H</u>	<u> </u>	<u>1</u>	<u> 1</u>		<u> </u>		ì
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L0633: 1, L0628: 1, L0517: 1, L0518: 1, L0789: 1, L0663: 1, L0352: 1, H0684: 1, H0435: 1, H0666: 1, S0330: 1, S0378: 1, S0380: 1, S0378: 1, H0134: 1, S0406: 1, H0436: 1, L0612: 1, L0742: 1, L0748: 1, L0751: 1, S0031: 1, L0596: 1, L0601: 1, S0026: 1, H0542: 1, S0026: 1, H0542: 1,	TO TO THE TOTAL OF	H0328: 2, H0674: 2, L0774: 2, L0805: 2, H0682: 2, L0731: 2, H0306: 1, L0770: 1, L0764: 1, L0809: 1, H0520: 1, H0660: 1, H0521: 1, L0744: 1, L0751: 1, L0750: 1, L0752: 1, S0026: 1, H0352: 1 and L0360: 1.			H0659: 2
	Ser-5 to Ser-14, Gln-21 to Gln-28.				Pro-1 to Val-6,
;	3937	3938	3939	3940	3941
	3 - 119	170 - 310	2 - 139	47 - 118	3 - 308
	1762	1763	1764	1765	1766
	HPANJ67R	HPANK61R	HPCOB29R	HPCOB69R	HPCOJ59R
	HPANJ67	HPANK61	HPCOB29	HPCOB69	HPCOJ59

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			,																									
			H0591: 62, S0242: 15,	L0754: 11, S0003: 9,	S0196: 8, L0766: 7,	H0144: 6, L0740: 6,	L0664: 5, S0420: 4,	H0393: 4, L0803: 4,	H0428: 3, H0509: 3,	H0641: 3, L0777: 3,	L0595: 3, L0362: 3,	S0360: 2, H0013: 2,	L0471: 2, L0163: 2,	H0355: 2, H0553: 2,	S0036: 2, L0662: 2,	L0804: 2, S0374: 2,	L0438: 2, S0126: 2,	L0748: 2, L0755: 2,	L0485: 2, S0412: 2,	H0341: 1, S0376: 1,	H0580: 1, S0045: 1,	H0331: 1, T0039: 1,	T0060: 1, H0427: 1,	L0021: 1, H0590: 1,	H0318: 1, H0194: 1,	H0563: 1, H0572: 1,	H0051: 1, H0083: 1,	S6028: 1, S0312: 1,
Asp-51 to Phe-56,	Asp-83 to Gly-88, Ser-94 to Glu-102.		Ile-12 to Cys-18.																									
		3942	3943							_								•										
		197 - 346	426 - 557						24*************************************					,														
		1767	1768																									
		HPCOK72R	HPCOK73 HPCOK73R																									
		HPCOK72	HPCOK73																									

	and a region of				
S0214: 1, H0031: 1, H0628: 1, H0598: 1, H0038: 1, H0634: 1, H0616: 1, H0551: 1, H0494: 1, H0625: 1, S0440: 1, S0344: 1, H0529: 1, L0770: 1, L0646: 1, L0645: 1, L0775: 1, L0521: 1, L0775: 1, L0521: 1, L0775: 1, L0657: 1, H0519: 1, H0711: 1, H0519: 1, H0711: 1, H0519: 1, H0660: 1, H0521: 1, L0745: 1, L0759: 1, S0434: 1, L0759: 1, H0667: 1, H0423: 1, H0622: 1, H0423: 1, H0622: 1,					
S0214: 1 H0628: H0616: H0412: H0494: S0440: 1 H0529: L0648: 1 L0775: 1 L0782: 1 L0782: 1 L0782: 1 L0782: 1 L0782: 1 L0782: 1 L0782: 1 L0783: H0521: L0789: 1 H0518: H0521: L0789: 1 H0521: L0789: 1 H0521: L0789: 1 H0521: L0789: 1 R0590: 1 R0594: 1 R0423: S0424: 1					
		Lys-42 to Val-49.	Ala-3 to Gly-9.	Tyr-12 to Ile-17, Pro-28 to Asn-33,	Alg-45 W Asp-55.
				3947	3948
	1 - 108	33 - 179	3 - 335	343 - 2	2 - 427
	1769	1770	1771	1772	1773
	HPCOK93R	HPCOL81R	HPCO090R	HPCO095R	HPCOP23R
,	HPCOK93	HPCOL81	HPC0090	HPC0095	HPCOP23

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	L0803: 8, L0777: 8,	L0794: 7, L0766: 7,	H0144: 5, L0438: 5,	H0547: 5, L0439: 5,	H0013: 4, L0779: 4,	H0441: 3, S0440: 3,	L0762: 3, L0771: 3,	L0662: 3, L0666: 3,	L0665: 3, L0748: 3,	L0752: 3, H0656: 2,	H0341: 2, S0418: 2,	S0356: 2, H0575: 2,	H0328: 2, H0615: 2,	H0040: 2, H0477: 2,	T0041: 2, L0598: 2,	L0763: 2, L0659: 2,	L0663: 2, L0664: 2,	H0659: 2, L0602: 2,	S0406: 2, L0755: 2,	L0759: 2, L0592: 2,	H0624: 1, H0170: 1,	H0171: 1, S0134: 1,	H0583: 1, H0650: 1,	H0657: 1, L0415: 1,	S0116: 1, H0661: 1,	H0664: 1, S0420: 1,	L0005: 1, S0444: 1,	S0360: 1, S0408: 1,	S0046: 1, S0476: 1,
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3949	3950				******														,							*		-	
417 - 548	2 - 259		,				,				·			,												,		,	
1774	1775																												,
HPCOQ33R	HPCOQ85R																												
HPCOQ33	HPC0Q85																												

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S0300: 1, L0717: 1, H0411: 1, H0486: 1, T0039: 1, H0318: 1, H0581: 1, H0123: 1, H0014: 1, H0354: 1, H0179: 1, S0003: 1, H0628: 1, H0632: 1, S0036: 1, L060: 1, H0564: 1, H0645: 1, L0564: 1, H0646: 1, S0002: 1, L0770: 1, L0800: 1, L0764: 1, L0649: 1, L0804: 1, L0650: 1, L0519: 1, L0650: 1, H0658: 1, H0648: 1, H0658: 1, S0126: 1, H0658: 1, H0648: 1, H0672: 1, S0328: 1, S0330: 1, H0518: 1, H0696: 1, H0518: 1, H0696: 1,	L0747: 1, L0758: 1, S0434: 1, L0591: 1,	S0011: 1, H0543: 1, H0422: 1, H0506: 1 and	H0721: 1.		
					Ala-44 to Gly-50.
				3951	3952
				483 - 641	133 - 396
				1776	1777
				HPCOQ92R	HPCOR41R
				HPC0092	HPCOR41

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	S0414: 16, S0360: 6,	S0358: 5, L0766: 5,	H0574: 4, H0521: 4,	L0754: 4, L0756: 4,	S0422: 3, L0770: 3,	H0547: 3, H0672: 3,	L0596: 3, H0251: 2,	H0615: 2, H0090: 2,	L0646: 2, L0662: 2,	L0776: 2, L0659: 2,	L0752: 2, L0758: 2,	\$0436: 2, L0595: 2,	H0624: 1, L0002: 1,	H0583: 1, H0650: 1,	S0116: 1, S0298: 1,	S0282: 1, S0418: 1,	H0722: 1, H0734: 1,	S0045: 1, S0300: 1,	L0717: 1, S0222: 1,	H0013: 1, L0021: 1,	H0706: 1, L0105: 1,	H0263: 1, L0041: 1,	H0057: 1, S0050: 1,	L0163: 1, H0051: 1,	S0388: 1, S0051: 1,	H0271: 1, S0003: 1,	H0644: 1, H0032: 1,	H0673: 1, H0379: 1,	H0272: 1, H0059: 1,
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3953	3954	*									<u>-</u>							_											t
43 - 432	137 - 355		4																										
1778	1779	•				•												_										·	
HPCOR52R	HPCOU70R		,	-																									
HPCOR52	HPCOU70			*																									-

HO130: 1, H0647: 1, S0210: 1, S0426: 1, H0529: 1, L0637: 1, L0775: 1, L0649: 1, L0806: 1, L0657: 1, L0666: 1, L0667: 1, L0666: 1, L0663: 1, L0666: 1, L0663: 1, L0668: 1, H0144: 1, L0438: 1, H0699: 1, H0699: 1, H0699: 1, H06439: 1, H0727: 1, L0439: 1, L0731: 1, H0595: 1, S0434: 1, L0608: 1, H0667: 1, S0196: 1, H06422: 1, S0424: 1 and H0506: 1,				L0439: 3, L0438: 1, H0659: 1, H0648: 1 and S0330: 1.		H0551: 11, L0766: 10, L0794: 8, S0026: 7,
	Lys-4 to Lys-16.		Asn-9 to Trp-14, Pro-20 to Arg-46.			
	3955	3956	3957	3958	3959	3960
	151 - 657	3 - 356	158 - 418	294 - 473	3 - 314	308 - 427
	1780	1781	1782	1783	1784	1785
	HPCOV35R	HPCOV41R	HPCOX43R	HPCPB38R	HPCPD26R	HPCPE33R
	HPCOV35	HPCOV41	HPCOX43	HPCPB38	HPCPD26	HPCPE33

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	to the second			www.wisee																									
H0556: 6, L0770: 6,	H0659: 6, H0521: 6,	.0740: 5, H0661: 4,	H0638: 4, H0497: 4,	H0560: 4, H0170: 3,	H0341: 3, S0360: 3,	H0318: 3, H0561: 3,	.0731: 3, L0757: 3,	H0265: 2, S0418: 2,	S0420: 2, S0356: 2,	132: 2, S0278: 2,	Г0115: 2, Т0110: 2,	H0083: 2, S0214: 2,	H0622: 2, H0617: 2,	S0364: 2, H0090: 2,	F0042: 2, H0366: 2,	H0646: 2, S0002: 2,	H0529: 2, L0369: 2,	.0769: 2, L0646: 2,	.0776: 2, L0655: 2,		,0666: 2, L0664: 2,	,0777: 2, L0758: 2,	.0593: 2, H0668: 2,	H0543: 2, H0423: 2,	F0002: 1, S0342: 1,	H0716: 1, H0657: 1,	S0212: 1, H0402: 1,	,0005: 1, S0376: 1,	H0580: 1, H0339: 1,
ЮH)0H	101)OH	H0;	:0H	Ю <u>Н</u>	[0.7]	(H)	S04	S01	T01)0H	HOC	S03	T00	ЮH	;0H	<u> </u>	<u> </u>	108 1708	100 ITO	<u> </u>	105	10, HO,		HO	802)OT	HO.
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L0717: 1, H0370: 1, S0005: 1, H0257: 1,	H0485: 1, T0109: 1,	H0635: 1, H0309: 1,	1, L0471: 1,	14: 1, H0266: 1,	S0003: 1, S0022: 1,	H0615: 1, H0031: 1,	S0366: 1, H0038: 1,	516: 1, H0413: 1,	41: 1, H0625: 1,	L0065: 1, S0440: 1,	S0150: 1, H0641: 1,	S0344: 1, S0422: 1,	26: 1, H0517: 1,	63: 1, L0761: 1,	30: 1, L0800: 1,	L0641: 1, L0642: 1,	71: 1, L0768: 1,	03: 1, L0650: 1,	75: 1, L0805: 1,	53: 1, L0657: 1,	.0663: 1, H0693: 1,	H0519: 1, S0126: 1,	558: 1, S0330: 1,	S0152: 1, H0522: 1,	H0696: 1, S0406: 1,	H0436: 1, H0626: 1,	S3014: 1, S0027: 1,	S0206: 1, L0596: 1,
100S 1000	H04)H06) H0C)HOC	008	H06	203	90H	T00	<u>1</u> 00	S01.	S03.)HOC	L07	90T	907	L07	F08	107	90T	90 <u>7</u>	H05	H06	S01.	H06	H04	830	802
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S0194: 1, H0542: 1, H0422: 1 and H0506: 1.	H0659: 2, L0752: 2, L0595: 2 and H0686: 1.					L0766: 10, L0754: 9,	S0358: 6, H0616: 6,	H0551: 5, L0439: 5,	H0657: 4, H0497: 4,	S0003: 4, H0038: 4,	S0422: 4, S0374: 4,	10659: 4, S0045: 3,	H0644: 3, H0412: 3,	10529: 3, L0662: 3,	,0805: 3, L0657: 3,	L0663: 3, H0521: 3,	I0624: 2, H0171: 2,	S0040: 2, H0638: 2,	S0418: 2, L0005: 2,	S0376: 2, H0546: 2,	H0046: 2, H0553: 2,	H0169: 2, H0591: 2,	H0413: 2, H0623: 2,	.0646: 2, L0771: 2,	.0803: 2, L0526: 2,	L0666: 2, L0664: 2,
S		Pro-10 to Val-15, Ser-25 to Asn-32.			Pro-29 to Gln-38.	Gln-47 to Lys-55.	<u>S</u>	<u> </u>	<u> </u>	<u> </u>	<u>S</u>	<u> </u>			<u> </u>		<u>اسلم</u>	<u>\( \mathcal{S} \) \( \lambda \)</u>	<u> </u>	S	<u>- 1-4-</u>	<u>. i-d-</u>	<u>- 1-1-1</u>	<u> </u>	<u> </u>	1
	3961	3962	3963	3964	3965	3966																				
	93 - 209	203 - 412	3 - 101	191 - 322	3 - 116	201 - 407						•												.,		
	1786	1787	1788	1789	1790	1791																				
	HPCPH50R	HPCPH51R	HPCPH52R	HPCPH68R	HPCPU27R	HPCPW09R																				
	нРСРН50	HPCPH51	HPCPH52	HPCPH68	HPCPU27	HPCPW09																	-			

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S0330: 2, S0380: 2,	.0748: 2, L0777: 2,	L0758: 2, S0242: 2,	0170: 1, H0656:	0116: 1, H0341: 1	0212: 1, H0671: 1	3356: 1, S0442: 1	360: 1, S0132: 1	0619: 1, L0717: ]	0278: 1, H0574: 1	0632: 1, H0486:	0114: 1, H0013: 1	0105: 1, S0474: 1	0110: 1, H0545: 1	L0471: 1, H0373: 1,	0290: 1, H0688:	0622: 1, L0483: 1	0628: 1, L0055:	0673: 1, H0674:	0068: 1, H0090:	H0056: 1, T0041: 1	H0560: 1, H0561: 1	0440: 1, H0509: 1	0150: 1, H0646: 1	0144: 1, L0598: 1	0517: 1, L0369:	L0372: 1, L0773: 1	0804: 1, L0774: 1	L0653: 1, L0655: 1	.0527: 1, L0659: 1
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L0518: 1, L0783: 1, L0809: 1, L0647: 1, H0144: 1, H0520: 1, H0648: 1, S0328: 1, S0152: 1, H0555: 1, S3014: 1, L0747: 1, L0749: 1, S0031: 1, L0684: 1, S0436: 1, L0608: 1, L0595: 1, S0011: 1, S0026: 1, H0136: 1, H0543: 1,	H0659: 2, L0438: 1 nd L0439: 1.		H0521: 13, L0659: 10, L0779: 10, H0551: 9, S0360: 6, S0214: 6, L0770: 6, L0649: 6, L0666: 6, L0731: 6, H0170: 5, H0638: 5, S0376: 5, H0580: 5, H0575: 5, H0553: 5, S0210: 5, L0662: 5, L0776: 5, L0439: 5, H0656: 4, S0358: 4, H0676: 4, H0574: 4, H0676: 4, H0574: 4, H0486: 4, H0318: 4, S0003: 4, L0655: 4.
L0518: L0809: H0144: H0648: S0152: S3014: L0749: L0684: L0608: S0011: H0136: H0423:	a	Leu-24.	H0521 L0779: S0360: L0666: H0170: S0376: H0575: H0547: H0656: H0676: H0676: H0676: H0676:
	7 His-25 to Lys-30.	8 Thr-19 to Leu-24	6.
	209 - 298   3967	74 - 256   3968	270 - 479 3969
	1792 2	1793	1794 2
	HPCPX80R	HPCQO79R	HPCQ091R
	HPCPX80	HPCQ079	HPCQ091

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.0663: 4, L0665: 4,	10659: 4, L0756: 4,	.0757: 4, H0445: 4,	H0542: 4, S0212: 3,	H0009: 3, L0157: 3,	.0471: 3, H0024: 3,	H0494: 3, L0763: 3,	.0637: 3, L0646: 3,	.0764: 3, S0052: 3,	H0672: 3, L0748: 3,	,0750: 3, L0752: 3,	.0755: 3, L0608: 3,	S0026: 3, H0543: 3,	H0171: 2, H0556: 2,	H0657: 2, L0785: 2,	S0420: 2, L0005: 2,	H0156: 2, S0474: 2,	H0581: 2, H0251: 2,	H0545: 2, H0373: 2,	H0477: 2, H0412: 2,	H0413: 2, T0041: 2,	S0466: 2, H0641: 2,	S0144: 2, L0372: 2,	J0774: 2, L0805: 2,	.0783: 2, L0664: 2,		H0658: 2, H0670: 2,	H0660: 2, H0539: 2,	H0522: 2, H0436: 2,	.0742: 2, L0777: 2,
<u>1</u>	H		<u> </u>	H	<u> </u>	H		7	H	7		<u>                                     </u>	<u>H</u>	<u>H</u>	<u> </u>	<u> </u>	<u>H</u>	<u>H</u>	H	<u>H</u>	<u>  S</u>	<u>  S</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	H	H	1
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L0758: 2, L0759: 2,	L0596: 2, L0599: 2,	L0362: 2, S0192: 2,	H0265: 1, S0040: 1,	H0295: 1, H0583: 1,	H0650: 1, S0116: 1,	H0663: 1, H0662: 1,	H0619: 1, S0278: 1,	H0261: 1, S0222: 1,	H0431: 1, H0592: 1,	H0586: 1, H0485: 1,	H0013: 1, H0069: 1,	H0427: 1, H0098: 1,	H0042: 1, H0004: 1,	H0274: 1, L0105: 1,	H0505: 1, H0052: 1,	H0327: 1, H0544: 1,	H0546: 1, H0046: 1,	H0150: 1, H0015: 1,	F0010: 1, H0510: 1,	H0375: 1, H0188: 1,	H0252: 1, H0328: 1,	H0039: 1, T0006: 1,	H0031: 1, L0055: 1,	H0032: 1, H0169: 1,	H0124: 1, H0598: 1,	H0090: 1, H0040: 1,	H0059: 1, L0564: 1,	H0560: 1, H0625: 1,	H0561: 1, H0647: 1,
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H0646: 1, S0142: 1, S0344: 1, S0002: 1, S0426: 1, H0695: 1, L0765: 1, L0769: 1, L0768: 1, L0769: 1, L0648: 1, L0771: 1, L0806: 1, L0806: 1, L0775: 1, L0806: 1, L0658: 1, S0428: 1, H0648: 1, H0666: 1, H0666: 1, S0330: 1, S0330: 1, S0350: 1, H0696: 1, S0034: 1, S0037: 1, S0028: 1, L0747: 1, S0028: 1, L0747: 1, S0028: 1, L0744: 1, L0588: 1, L0594: 1, L0588: 1, L0594: 1, L0601: 1, S0011: 1, H0443: 1, L0601: 1, S0011: 1, H0443: 1, L0588: 1, L0594: 1, L0588: 1, L0594: 1, L0601: 1, S0011: 1, H0443: 1, L0601: 1, S0011: 1, H0443: 1, L0588: 1, L0594: 1, L0588: 1, L0594: 1, L0588: 1, L0594: 1, L0594: 1, L0601: 1, S0011: 1, H0443: 1, L0594: 1, L0588: 1, L0594: 1, L0588: 1, L0594:	110 1997: 1 4117 110000: 11				L0758: 6, L0779: 5, L0766: 4, L0731: 4,
				Pro-3 to Cys-9,	
	3970	3971	3972	3973	3974
	113 - 271	119 - 265	1 - 345	2 - 229	259 - 408
	1795	1796	1797	1798	1799
	HPC0066R	HPCQT27R	HPCQT88R	HPCQW64 HPCQW64R	HPCQW77 HPCQW77R
	HPC0066		HPCQT88	HPCQW64	HPCQW77

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S0360: 2, L0769: 2,	L0649: 2, H0648: 2,	L0744: 2, L0740: 2,	L0747: 2, L0777: 2,	L0755: 2, L0757: 2,	L0599: 2, H0171: 1,	T0049: 1, H0657: 1,	H0255: 1, H0638: 1,	S0408: 1, H0619: 1,	H0037: 1, H0052: 1,	L0471: 1, H0014: 1,	H0316: 1, S0438: 1,	L0520: 1, L0763: 1,	L0770: 1, L0637: 1,	L0761: 1, L0373: 1,	L0764: 1, L0774: 1,	L0775: 1, L0375: 1,	L0776: 1, L0655: 1,	L0527: 1, L0542: 1,	L0382: 1, L0519: 1,	H0144: 1, H0682: 1,	H0696: 1, H0555: 1,	S3012: 1, L0439: 1,	L0751: 1, L0754: 1,	L0745: 1, L0749: 1,	L0752: 1, L0759: 1,	H0542: 1, S0458: 1 and	S0384: 1.	
									<del> </del>									\$11-11			 							Lys-1 to Val-6.
	,																											3975
																												174 - 326
																												1800
																												HPCQX47R
							14																					HPCQX47

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			·			L0655: 22, H0648: 8, H0638: 4. H0318: 4	L0776: 4, L0659: 4,	L0751: 4, L0747: 4,	L0599: 4, S0358: 3,	L0761: 3, L0775: 3,	L0760: 2, H0255: 2,	H0663: 2, S0360: 2,	H0486: 2, L0142: 2,	H0087: 2, L0662: 2,	L0378: 2, L0653: 2,	L0783: 2, L0666: 2,	L0664: 2, L0665: 2,	L0743: 2, L0756: 2,	L0777: 2, L0362: 2,	L0600: 2, H0650: 1,
	Ser-8 to Lys-21, Gln-47 to Glu-52, Arg-72 to Arg-87.	Met-4 to Lys-18, Gln-44 to Glu-49, Arg-69 to Arg-84.	Asn-1 to Lys-20, Gln-46 to Glu-51, Arg-71 to Arg-86.	Asn-1 to Lys-21, Gln-47 to Glu-52, Arg-72 to Arg-87.																
3976	3977	3978	3979	3980	3981	3982										,				-
2 - 109	228 - 560	350 - 760	269 - 598	354 - 713	2 - 595	1 - 177														
1801	1802	1803	1804	1805	1806	1807														
HPCRN90R	HPCTD21R	HPCTD23R	HPCTD25R	HPCTD61R	HPCTF29R	HPCTF83R														
HPCRN90	HPCTD21	HPCTD23	HPCTD25	HPCTD61	HPCTF29	HPCTF83														

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H0657: 1, H0692: 1,	H0381: 1, H0306: 1,	H0402: 1, H0305: 1,	S0376: 1, S0300: 1,	H0441: 1, L0622: 1,	0623: 1, L0586: 1,	H0635: 1, L0022: 1,	.0042: 1, H0575: 1,	.0581: 1, H0052: 1,	.0597: 1, H0231: 1,	.0109: 1, H0029: 1,	.0039: 1, T0006: 1,	.0031: 1, H0166: 1,	.0673: 1, H0674: 1,	(0163: 1, H0063: 1,	H0413: 1, H0359: 1,	.0396: 1, H0647: 1,	H0646: 1, S0002: 1,	0529: 1, L0762: 1,	L0769: 1, L0667: 1,	0772: 1, L0372: 1,	0771: 1, L0767: 1,	0768: 1, L0387: 1,	0766: 1, L0774: 1,	0784: 1, L0606: 1,	0607: 1, L0629: 1,	0657: 1, L0518: 1,	0782: 1, L0809: 1,	L0787: 1, L0789: 1,	.0790: 1, L0663: 1,
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H0690: 1, H0659: 1, H0672: 1, H0651: 1, S0328: 1, S0378: 1, H0521: 1, H0522: 1, S0044: 1, H0214: 1, H0187: 1, L0748: 1, L0740: 1, L0755: 1, H0445: 1, H0595: 1, S0106: 1, S0462: 1 and H0677: 1.					H0052: 3, H0624: 2,	H0014: 2, H0375: 2,	L0598: 2, L0662: 2,	L0803: 2, L0792: 2,	L0666: 2, L0664: 2,	H0659: 2, L0742: 2,	L0743: 2, L0754: 2,	H0423: 2, H0171: 1,	H0686: 1, S0360: 1,	H0486: 1, H0194: 1,	L0041: 1, L0471: 1,	H0687: 1, H0040: 1,	H0264: 1, S0440: 1,	S0422:-1, L0761: 1,	L0646: 1, L0804: 1,
		Lys-37 to Arg-42, Ser-74 to Thr-81.	Arg-6 to Asp-15.																
	3983	3984	3985	3986	3987														
	1 - 114	1 - 306	341 - 451	23 - 538	191 - 343														
	1808	1809	1810	1811	1812														
	HPCTI39R	HPCT186R	HPCTN62R	HPCTO69R	HPCTP60R														
	HPCTI39	HPCTI86	HPCTN62	HPCT069	HPCTP60														

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T 0252: 1 TIOC70: 1	L0744: 1, L0740: 1,	L0780: 1, L0759: 1 and	H0506: 1.	L0803: 2, H0413: 1,	L0650: 1, L0666: 1,	H0689: 1, H0659: 1,	H0658: 1, L0758: 1,	L0759: 1 and S0242: 1.					L0439: 11, L0740: 10,	L0752: 10, L0659: 8,	L0748: 7, L0005: 6,	S0358: 6, L0471: 6,	S0214: 6, L0803: 6,	L0517: 6, L0666: 6,	L0759: 6, L0664: 5,	L0665: 5, S0126: 5,	H0574: 4, H0156: 4,	L0646: 4, L0771: 4,	L0766: 4, S0374: 4,	H0659: 4, L0754: 4,	L0749: 4, L0731: 4,	L0362: 4, H0170: 3,	H0341: 3, H0632: 3,	S0003: 3, H0413: 3,	H0529: 3, L0369: 3,
									Gly-4 to Lys-9.		Pro-7 to Ala-13.		Asn-27 to Lys-36.	•														,	
				3988					3989	3990	3991	3992	3993																
				307 - 495					3 - 128	3 - 377	2 - 274	2 - 205	1 - 153													,		•	
				1813					1814	1815	1816	1817	1818					٠											
				HPCTR60R					HPCTT47R	HPCTV40R	HPCTV53R	HPCTV92R	HPCTX22R					,											
				HPCTR60					HPCTT47	HPCTV40	HPCTV53	HPCTV92	HPCTX22																

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L0637: 3,	L0663: 3,	H0478: 3,	S0212: 2,	H0580: 2,	H0431: 2,	H0331: 2, H0427: 2,	H0039: 2,	H0551: 2,	L0772: 2,	L0653: 2, L0654: 2,	L0655: 2,	.0661: 2, H0547: 2,	S0028: 2,	H0543: 2,	H0171: 1,	H0657: 1,	L0415: 1,	S0418: 1,	S0354: 1,	H0208: 1,	H0013: 1,	T0082: 1,	H0318: 1,	H0544: 1,	H0620: 1,	H0014: 1,	H0355: 1,	H0266: 1,	H0615: 1,
L0770: 3, L0637: 3,	L0775: 3, L0663: 3,	S0378: 3, H0478: 3,	S0026: 3,	S0360: 2, ]	S0045: 2, H0431: 2,	H0331: 2,	H0599: 2,	H0553: 2, H0551: 2,	S0002: 2, L0772: 2,	L0653: 2,	L0776: 2,	L0661: 2,	H0519: 2, S0028: 2	L0755: 2, H0543:	H0624: 1,	T0002: 1,	H0656: 1, L0415: 1,	S0116: 1,	S0420: 1,	L0430: 1,	H0642: 1,	L0021: 1, T0082: 1,	S0010: 1, H0318: 1,	H0052: 1, H0544:	H0123: 1, H0620:	H0024: 1, H0014:	H0275: 1, H0355:	H0510: 1, H0266:	H0290: 1,
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L0483: 1, H0048: 1, H0644: 1, H0032: 1, H0068: 1, H0040: 1, H0560: 1, H0625: 1, H0561: 1, S0440: 1, H0561: 1, S0440: 1, H0564: 1, S0144: 1, S0422: 1, S0426: 1, L0373: 1, L0378: 1, L0899: 1, L0647: 1, L0438: 1, H0689: 1, H0683: 1, H0684: 1, H0683: 1, H0684: 1, H0539: 1, H0521: 1, S0013: 1, L0779: 1, L0758: 1, H0667: 1, H0136: 1, S0194: 1, H0542: 1, H0422: 1 and S0424: 1.	L0666: 19, L0752: 14, S0358: 12, L0770: 10, L0439: 10, L0754: 10, L0659: 8, H0574: 7, L0663: 7, L0664: 7, H0659: 7, L0758: 7, L0759: 7, S0408: 6, H0519: 6, L0731: 6, L0750: 6, L0731: 6,
	3994
	381 - 578.
	1819
	HPCTY38R
	HPCTY38

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.0717: 5, L0771: 5,	.0775: 5, L0776: 5,	.0783: 5, H0648: 5,	.0756: 5, L0362: 5,	S0442: 4, H0413: 4,	S0422: 4, L0638: 4,		_0748: 4, L0592: 4	H0170: 3, H0580: 3,	H0266: 3, H0591:	H0529: 3, L0637:	L0803: 3, L0774: 3,	.0665: 3, H0660: 3,	.0747: 3, H0542:	H0543: 3, H0657:	S0420: 2, S0354: 2,	S0444: 2, S0360: 2	H0013: 2, H0544: 2,	H0015: 2, H0051:	H0687: 2, H0328: 2,	H0674: 2, S0036: 2,	H0412: 2, S0438: 2	S0440: 2, L0640: 2,	.0769: 2, L0773: 2,			L0805: 2, H0144: 2,	S0374: 2, H0691: 2,	S0328: 2, S0330: 2,	H0696: 2, L0751: 2,
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S0436: 2, L0591: 2,	L0581: 2, H0423: 2,	H0624: 1, H0685: 1,	H0583: 1, H0656: 1,	H0341: 1, S0212: 1,	S0282: 1, H0662: 1,	H0638: 1, H0208: 1,	S0045: 1, S0300: 1,	H0455: 1, L0105: 1,	H0123: 1, H0024: 1,	H0239: 1, S6028: 1,	S0250: 1, S0003: 1,	H0615: 1, H0428: 1,	T0006: 1, H0135: 1,	H0616: 1, H0551: 1,	S0386: 1, L0564: 1,	T0041: 1, H0625: 1,	H0509: 1, S0472: 1,	H0646: 1, L0369: 1,	L0762: 1, L0763: 1,	L4747: 1, L0796: 1,	L0639: 1, L0667: 1,	L0772: 1, L0372: 1,	L0642: 1, L0648: 1,	L0767: 1, L0794: 1,	L0804: 1, L0651: 1,	L0653: 1, L0606: 1,	L0607: 1, L0807: 1,	L0527: 1, L0657: 1,	L0512: 1, L0526: 1,
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L0547: 1, L0518: 1, L0782: 1, L0809: 1, L0367: 1, L0565: 1, L0438: 1, H0520: 1, S0126: 1, H0435: 1, H0670: 1, H0666: 1, H0539: 1, S0406: 1, L0744: 1, S0028: 1, L0745: 1, S0260: 1, L0757: 1, S0260: 1, L0608: 1, S0412: 1,				L0747: 12, L0750: 12,	H0052: 9, H0547: 8,	H0659: 8, L0439: 8,	L0752: 8, S0360: 7,	S0408: 7, S0222: 6,	S0010: 6, H0494: 6,	H0144: 6, H0657: 5,	S0358: 5, H0393: 5,	H0373: 5, H0551: 5,	L0775: 5, L0666: 5,	L0758: 5, H0542: 5,	H0486: 4, H0013: 4,	H0545: 4, H0046: 4,	L0471: 4, H0687: 4,
	Asp-1 to Leu-6.		Gln-20 to Leu-25.	Asp-11 to Val-19,	Cys-36 to Asp-58,	Lys-102 to Lys-111, H0659: 8, L0439: 8,	Ile-115 to Ala-125,	Val-127 to Gln-132.									
	3995	3668	3997	3998									_				
:	57 - 209	1 - 99	3 - 287	2 - 412													
	1820	1821	1822	1823													
	HPDOA92R	HPDOF32R	HPDOF81R	HPDOP05R													
	HPDOA92	HPDOF32	HPDOF81	HPDOP05													

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H0644: 4, L0769: 4,	.0521: 4, L0657: 4,	L0659: 4, L0663: 4,	L0757: 4,	, H0713: 3,	H0716: 3, H0638: 3,	S0376: 3, H0592: 3,	H0327: 3,	, S0036: 3,	, S0440: 3,	L0545: 3,	H0520: 3,	, S0380: 3,	H0445: 3,	H0665: 3, S0194: 3,	H0543: 3, H0717: 2,	S0356: 2,	S0442: 2, S0444: 2,	S0045: 2,	S0476: 2, H0587: 2,	10427: 2, H0575: 2,	H0706: 2, S0346: 2,	HO581: 2, H0194: 2,	H0530: 2, H0620: 2,	70010: 2, H0356: 2,	H0615: 2, H0039: 2,	H0617: 2, H0032: 2,	H0673: 2, H0068: 2,	H0038: 2, S0438: 2,	S0150: 2, H0647: 2,
H0644: 4,	L0521: 4,	L0659: 4,	S0374: 4,	H0423: 4, H0713:	H0716: 3,	80376: 3,	S0474: 3,	H0553: 3,	H0412: 3,	L0651: 3,	L0438: 3,	H0435: 3,	S0027: 3,	H0665: 3,	H0543: 3,	T0049: 2,	S0442: 2,	S0410: 2,	S0476: 2,	H0427: 2,	H0706: 2,	H0581: 2,	H0530: 2,	T0010: 2,	H0615: 2,	H0617: 2,	H0673: 2,	H0038: 2,	S0150: 2,
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H0431: 1, H0415: 1,	H0442: 1, H0438: 1,	H0586: 1, H0574: 1,	L0622: 1, T0040: 1,	H0250: 1, H0156: 1,	L0021: 1, H0002: 1,	T0082: 1, T0048: 1,	H0318: 1, H0310: 1,	H0251: 1, H0263: 1,	H0597: 1, L0738: 1,	H0546: 1, H0569: 1,	H0050: 1, H0024: 1,	H0578: 1, H0014: 1,	H0015: 1, L0163: 1,	H0051: 1, S0388: 1,	H0083: 1, H0399: 1,	S6028: 1, H0398: 1,	S0003: 1, S0214: 1,	H0428: 1, L0483: 1,	H0181: 1, H0606: 1,	H0166: 1, H0169: 1,	H0708: 1, H0163: 1,	T0067: 1, H0264: 1,	H0488: 1, H0413: 1,	L0564: 1, H0022: 1,	T0041: 1, H0512: 1,	L0475: 1, H0561: 1,	S0294: 1, L0065: 1,	H0641: 1, H0633: 1,	S0472: 1, S0422: 1,
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H0529: 1, L0536: 1, L0770: 1, L0761: 1, L0772: 1, L0373: 1, L0662: 1, L0803: 1, L0662: 1, L0803: 1, L0636: 1, L0517: 1, L0526: 1, L0783: 1, L0384: 1, L0544: 1, L0384: 1, L0544: 1, L0367: 1, H0689: 1, H0711: 1, H0689: 1, H0711: 1, H0689: 1, H0538: 1, H0710: 1, H0539: 1, H0710: 1, H0539: 1, L0740: 1, L077: 1, L0756: 1, L077: 1, L0758: 1, L077: 1, L0588: 1, L0591: 1, L0594: 1, H0668: 1, S0026: 1,			H0694: 48, L0777: 14, H0521: 11, L0794: 10, L0748: 10, L0747: 10, S0214: 9, S0360: 8,
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	3999	4000	4001
	3 - 512	3 - 272	3 - 287
	1824	1825	1826
	HPDOP20R	HPDOS87R	HPDOU54R
•	HPDOP20	HPDOS87	HPDOU54

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S0003: 8, H0644: 8,	.0439; 8; H0553; 7,	.0662: 7, L0659: 7,	.0588: 7, H0543: 7,	, L0646: 6	H0436: 6, L0740: 6,	H0341: 5, S0358: 5,	H0580: 5, H0545: 5,	H0494: 5, L0666: 5,	, L0779: 5,	.0599: 5, H0542: 5,	H0656: 4, H0486: 4	H0046: 4, H0014: 4,	H0551: 4, S0440: 4,	H0529: 4, L0764: 4,	.0809: 4, S0126: 4,	S0406: 4, L0757: 4,	30436: 4, L0591: 4,	.0485: 4, L0362: 4,	H0423: 4, H0624: 3,	S0376: 3, S0444: 3,	S0408: 3, S0410: 3,	H0581: 3, H0031: 3,	H0090: 3, S0142: 3,	.0770: 3, L0637: 3,	, L0521: 3,	.0766: 3, L0774: 3,	.0663: 3, L0664: 3,	[0068: 3, H0547: 3,	H0539: 3, L0758: 3,
S0003: 8	L0439: 8	L0662: 7	L0588: 7	H0038: 6	H0436: 6	H0341: 5	H0580: 5	H0494: 5	L0665: 5	L0599: 5	H0656: 4	H0046: 4	H0551: 4	H0529: 4	L0809: 4	S0406: 4	S0436: 4	L0485: 4	H0423: 4	S0376: 3	S0408: 3	H0581: 3	H0090: 3	L0770: 3	L0772: 3	L0766: 3	L0663: 3	T0068: 3	H0539: 3
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H0445: 3, S0194: 3.	H0171: 2, H0556: 2,	S0134: 2, H0650: 2,	H0657: 2, S0418: 2,	H0619: 2, H0411: 2,	H0013: 2, S0010: 2,	H0544: 2, H0510: 2,	S6028: 2, S0022: 2,	L0483: 2, T0006: 2,	H0591: 2, H0616: 2,	T0067: 2, H0412: 2,	T0042: 2, H0560: 2,	H0646: 2, S0422: 2,	L0804: 2, L0775: 2,	L0805: 2, L0783: 2,	L4775: 2, H0670: 2,	H0648: 2, H0710: 2,	H0555: 2, H0478: 2,	S3012: 2, S0027: 2,	L0754: 2, L0749: 2,	L0753: 2, L0759: 2,	S0434: 2, L0592: 2,	L0604: 2, S0011: 2,	S0276: 2, S0040: 1,	H0716: 1, S0114: 1,	L0760: 1, S0116: 1,	H0662: 1, H0459: 1,	S0442: 1, S0045: 1,	S0476: 1, H0393: 1,	S0278: 1, H0550: 1,
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S0222: 1, H0431: 1,	H0455: 1, H0600: 1,	H0592: 1, H0586: 1,	H0331: 1, H0574: 1,	H0485: 1, T0040: 1,	0109: 1, H0427: 1,	H0156: 1, H0575: 1,	0004: 1, H0274: 1,	S0346: 1, H0310: 1,	0052: 1, L0040: 1,	H0597: 1, H0572: 1,	0123: 1, H0050: 1,	L0471: 1, H0375: 1,	0594: 1, H0687: 1,	H0252: 1, H0039: 1,	.0142: 1, H0628: 1,	0617: 1, H0032: 1,	H0169: 1, H0674: 1,	.0455: 1, H0068: 1,	H0598: 1, H0135: 1,	H0163: 1, H0634: 1,	0264: 1, H0272: 1,	H0413: 1, T0069: 1,	0041: 1, H0625: 1,	H0561: 1, S0450: 1,	S0438: 1, H0509: 1,	H0131: 1, H0654: 1,	0344: 1, S0210: 1,	S0002: 1, S0426: 1,	L0451: 1, L0520: 1,
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, L0763:	L0773:	L0386:	0375:	L0651: 1, L0654: 1	, L0527:	1, L0518: 1	0545:	4501:	1, S0216: 1	H0144: 1, H0691:	S0148: 1, H0519:	10658:	H0660: 1, H0666:	1, S0152:	0479:	1, S3014: 1	L0750:	1, L0752:	0731:	H0707: 1, L0594:	0026:	H0665: 1, S0196: 1,	H0422: 1, S0458: 1 and						
		.0768: 1, L	): 1, L	I: 1, L	5: 1, L	5: 1, L	9: 1, L	7: 1, L	3: 1, S	4: 1, F	3: 1, H	5: 1, F	0:1, E	): 1, S	4: 1, H	): 1, S	4: 1, L	5: 1, L	5: 1, L	7: 1, L	1: 1, S	5: 1, S	2: 1, S	6: 1.					
L0762: 1	L0761: 1	F076	1065	T065	L0776: 1	L0526:	L0519:	L0787:	S0428:	H014	S0148	H043	H0660: 1	S0330:	S0044:	S0390: 1	L0744: 1	L0756: 1	L0755:	H070	T036	990H	H042	H0506:					
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																											Gly-3	to Glu	
																											Pro-6 to Gly-35,	Arg-41 to Glu-47	
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																									1 - 504	2 - 178	294 - 485		94 - 291
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																									1827				1830
																									743R	65RA	90RA		114R
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																									HPDOZ43	HPDPC65	HPDPC90		HPDPH14
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	L0784: 2, H0428: 1, H0644: 1, S0366: 1, L0659: 1, L0636: 1, L0789: 1 and H0658: 1.	L0766: 2 and H0658: 2.		L0794: 4, H0351: 3,	H0658: 2, H0657: 1,	H0341: 1, S0358: 1,	L0586: 1, L0021: 1,	T0110: 1, H0328: 1,	H0040: 1, H0616: 1,	H0625: 1, S0438: 1,	S0440: 1, S0150: 1,	H0130: 1, H0641: 1,	L0800: 1, L0768: 1,	L0803: 1, L0776: 1,	L0657: 1, H0660: 1,	S0328: 1, S0380: 1,	S0406: 1, L0747: 1,	H0343: 1, H0136: 1,	H0423: 1, H0422: 1 and	S0424: 1.			
			Gln-15 to Arg-20, Arg-35 to Ser-40.	Ile-5 to Lys-20.																	Asp-28 to His-35,	Phe-43 to Trp-48,	Asn-81 to Arg-86.
4006	4007	4008	4009	4010									1								4011		
1 - 420	365 - 3	260 - 463	369 - 581	244 - 456																	80 - 463	,	1
1831	1832	1833	1834	1835																	1836		
HPDPK37R	HPDPN83R	HPDPP69R	HPDPQ10R	HPDPQ16R																	HPDPR73R		
HPDPK37	HPDPN83	69ЫДОНН	HPDPQ10	HPDPQ16																	HPDPR73		*

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L0770: 4, L0771: 4,	L0769: 3, L0757: 3,	L0766: 2, L0779: 2, L0758: 2, H0170: 1,	H0686: 1, S0476: 1,	H0586: 1, L0637: 1,	L0761: 1, L0803: 1,	L0774: 1, L0776: 1,	L0659: 1, L0809: 1,	L0791: 1, H0658: 1,	H0696: 1, S3012: 1,	S0390: 1, L0747: 1,	L0752: 1, L0753: 1,	L0759: 1, S0434: 1,	L0592: 1 and H0543: 1.		L0439: 4, H0658: 2,	S0474: 1, L0794: 1,	L0804: 1, L0791: 1,	L0755: 1 and L0599: 1.							
			•												Asp-17 to Asn-30.						Lys-32 to Glu-39,	Glu-43 to Ala-50, Ala-52 to Glu-80.			
4012													•	4013	4014				4015	4016	4017		4018	4019	4020
2 - 214	ı													2 - 421	378 - 533		-		2 - 262	2 - 418	148 - 405		1 - 693	2 - 235	2 - 334
1837														8838	1839				1840	1841	1842		1843	1844	1845
HPDPS51R								,		-				HPDPS90R	HPDPT86R				HPDPU66R	HPDPX12RP 00B	HPDPY83 HPDPY83RP	00B	HPDQC34R		HPDQH11R
HPDPS51								•						HPDPS90	HPDPT86				HPDPU66	HPDPX12	HPDPY83		HPDQC34	HPDQG58	HPDQH11

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	H0052: 11, L0439: 10,	L0748: 7, L0438: 6,	L0750: 6, L0666: 5,	L0599: 5, S0358: 4,	H0620: 4, H0038: 4,	H0413: 4, L0369: 4,	L0769: 4, L0659: 4,	L0665: 4, S0328: 4,	L0758: 4, S0418: 3,	S0442: 3, S0410: 3,	H0619: 3, H0599: 3,	L0662: 3, L0768: 3,	L0774: 3, L0653: 3,	H0660: 3, H0521: 3,	L0731: 3, S0434: 3,	L0601: 3, S0026: 3,	S0424: 3, H0556: 2,	T0002: 2, H0295: 2,	H0583: 2, H0656: 2,	S0376: 2, S0444: 2,	H0580: 2, S0045: 2,	S0046: 2, S0222: 2,	H0592: 2, H0586: 2,	N0009: 2, H0013: 2,	H0575: 2, H0618: 2,	H0318: 2, H0196: 2,	H0012: 2, H0373: 2,
Gln-12 to Ser-19, Gln-40 to Gln-54.															-											ř	
4021	4022	•																									
105 - 308	3 - 545															,											
1846	1847														•						٠						
НРDQH34 НРDQH34R	HPDQI50R																										
НРDQН34	HPDQI50																			********							

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T0010: 2, S6028: 2,	S0214: 2, H0031: 2,	.0456: 2, H0708: 2,	H0551: 2, H0264: 2,	S0440: 2, H0509: 2,	0529: 2, L0763: 2,	L0638: 2, L0637: 2,	764: 2, L0381: 2,	0657: 2, L0783: 2,	J0663: 2, S0152: 2,	H0478: 2, S0028: 2,	.0741: 2, L0777: 2,	596: 2, L0588: 2,	L0589: 2, L0605: 2,	)604: 2, H0665: 2,	H0136: 2, H0543: 2,	H0170: 1, H0265: 1,	S0040: 1, H0717: 1,	0657: 1, L0417: 1,	L0785: 1, H0381: 1,	S0116: 1, H0341: 1,	H0664: 1, H0402: 1,	H0450: 1, S0356: 1,	S0360: 1, H0208: 1,	S0476: 1, H0411: 1,	0409: 1, H0613: 1,	H0587: 1, H0497: 1,	H0333: 1, H0643: 1,	H0574: 1, L0623: 1,	F0039: 1, H0427: 1,
T	0S	<u> </u>	H	OS .	H	<u>01</u>	<u>91</u>	2	97	H	<u> </u>	<u>1</u>	<u>21</u>	<u> </u>	H	H	0S	H	<u>91</u>	0S	H	H(	<u>S0</u>	<u>80</u>	H(	HC	)H	HC	TO
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.0021: 1, T0082: 1	H0036: 1, H0253: 1,	010: 1, 10048: 1,	182: 1, S04/4: 1,	263: 1, T0110: 1	040: 1, H0327: 1	471: 1, H0010: 1	024: 1, H0015: 1	416: 1, H0290: 1	292: 1, S0003: 1,	483: 1, H0030: 1	553: 1, H0674: 1	364: 1, S0366: 1,	059: 1, S0038: 1	L0564: 1, T0042: 1,	494: 1, S0016: 1	560: 1, H0641: 1	H0646: 1, S0426: 1,	L0371: 1, L0770: 1,	761: 1, L0667: 1,	.0772: 1, L0372: 1,	646: 1, L0642: 1,	L0374: 1, L0766: 1,	651: 1, L0378: 1,	776: 1, L0655: 1,	L0511: 1, L0656: 1,	636: 1, L0382: 1,	664: 1, H0698: 1	702: 1, H0723: 1	H0520: 1, H0547: 1
07]	HO HO	SOC	20.	OH OH	<u> 1</u>	$\Gamma$ 0	OH).	HO	OH	707	HO	:0S	OH	<u>[[0,                                   </u>	OH	HO	HO	T0.	LO.	TO.	TO	[F0]	TO	FO.	<u>  170;</u>	TO	TO	HO	HO
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H0519: 1, H0711: 1, H0659: 1, H0658: 1, H0666: 1, H0648: 1, H0672: 1, S0378: 1, L0602: 1, H0518: 1,	H0522: 1, S0406: 1, H0555: 1, H0187: 1, S0027: 1, S0032: 1,	L0742: 1, L0754: 1, L0747: 1, L0780: 1, L0757: 1, L0759: 1,	S0031: 1, S0436: 1, L0592: 1, L0581: 1, L0608: 1. L0593: 1.	L0362: 1, L0366: 1, H0667: 1, H0542: 1,	H0422: 1 and H0352: 1.	L0779: 5, L0803: 4, H0170: 3, L0663: 3,	L0777: 3, H0687: 2,	L0521: 2, L0809: 2,	L0759: 2, L0589: 2,	50300: 1, 20046: 1, 50300: 1, L0717: 1,	H0369: 1, H0550: 1,	S0222: 1, H0586: 1,	H0574: 1, H0042: 1,	S0010: 1, H0544: 1,	H0620: 1, H0014: 1,
										<b>-</b>					
:						4023									
						1 - 441								-	
						1848									
						HPDQI55R									
						HPDQI55									

H0373: 1, H0510: 1, S0003: 1, H0644: 1, H0316: 1, S0036: 1, H0063: 1, H0264: 1, L0662: 1, L0762: 1, L0649: 1, L0762: 1, L0518: 1, L0783: 1, L0789: 1, H0144: 1, H0547: 1, H0659: 1, H0658: 1, S0328: 1, H0658: 1, L0747: 1, L0780: 1, L0731: 1, L0780: 1, L0731: 1, L0780: 1, L0731: 1, L0598: 1, L0591: 1,	L0774: 3, L0809: 2, H0483: 1, H0306: 1, H0599: 1, H0618: 1, H0083: 1, H0644: 1, H0617: 1, H0606: 1, H0087: 1, L0369: 1, L0763: 1, L0794: 1, L0662: 1, L0794: 1, L0804: 1, L0790: 1, L0665: 1, H0658: 1, H0696: 1, L0748: 1,	L0780: 1 and L0757: 1. L0777: 21, L0748: 16, L0439: 12, S0360: 9,
	Pro-5 to Arg-25, Lys-32 to Ser-39, Pro-63 to Pro-79, Pro-115 to His-121.	
	4025	4026
	256 - 711	1 - 639
	1850	1851
	HPDQL55R	HPDQR20 HPDQR20R
	HPDQL55	HPDQR20

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.0659: 9, L0666: 9,	JO803: 8, LO662: 7,	747: 7, L0794: 6	L0663: 5, S0406: 5,	770: 4, L0731: 4,	758: 4, S0026: 4,	S0356: 3, L0717: 3,	H0156: 3, L0769: 3,	.0809: 3, L0664: 3,	H0520: 3, H0672: 3,	H0521: 3, H0696: 3,	J0750: 3, S0192: 3,	H0542: 3, H0423: 3,	H0624: 2, H0657: 2,	S0420: 2, S0358: 2,	S0376: 2, S0408: 2,	H0013: 2, S0003: 2,	S0214: 2, H0264: 2,	H0412: 2, H0413: 2,	S0440: 2, L0764: 2,	766: 2, L0804: 2,	L0774: 2, L0775: 2,	806: 2, L0655: 2,	665: 2, S0374: 2,	.0438: 2, H0547: 2,	H0519: 2, H0689: 2,	H0660: 2, S0380: 2,	H0522: 2, S0206: 2,	.0749: 2, L0752: 2,	.0759: 2, L0361: 2,
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S0242: 2, H0170: 1,	71: 1, L0448: 1,	H0685: 1, H0716: 1,	S0114: 1, H0656: 1,	85: 1, S0400: 1,	42: 1, S0444: 1,	00: 1, S0222: 1,	H31: 1, H0586: 1,	H0632: 1, L0623: 1,	369: 1, H0036: 1,	H0581: 1, H0309: 1,	963: 1, H0327: 1,	H0545: 1, H0150: 1,	71: 1, H0024: 1,	H0014: 1, T0010: 1,	)83: 1, H0252: 1,	H0615: 1, H0688: 1,	522: 1, L0483: 1,	H0068: 1, S0366: 1,	H0598: 1, H0163: 1,	90: 1, H0040: 1,	F0067: 1, H0623: 1,	T0069: 1, H0494: 1,	72: 1, S0448: 1,	H0714: 1, H0641: 1,	42: 1, S0210: 1,	L0369: 1, L0646: 1,	41: 1, L0771: 1,	J0387: 1, L0651: 1,	.0378: 1, L0653: 1,
802	H01	)HOC	501	L07	804	803	H04	H0¢	)0H	H05	H02	H05	L04	)OH	)OH	H06	H06	)HOC	H05	)OH	T00	T00	803	H07	S01	L03	700 T	103	L03
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L0542: 1, L0647: 1, L0787: 1, H0658: 1, H0670: 1, H0648: 1, H0539: 1, H0710: 1, S0332: 1, H0478: 1, H0627: 1, L0755: 1, S0436: 1, L0605: 1, L0362: 1, H0667: 1, S0276: 1, H0543: 1, H0422: 1, H0506: 1 and H0352: 1.						H0658: 2, L0745: 2, S0422: 1, H0648: 1 and L0731: 1.	L0748: 9, L0774: 3, H0331: 2, H0632: 2,	L0526; 2, H0658; 2, L0581; 2, H0574; 1 and L0790; 1.	H0542: 11, H0265: 7, H0543: 7, L0751: 5, S0424: 5, H0556: 4,
	Gln-121 to Glu-136, Ala-153 to Ser-162, Ala-176 to Ser-182.			Phe-25 to Arg-34,	Cys-51 to His-56, Glu-66 to Ser-75.		His-2 to Trp-13, Lys-22 to Cys-31.		Gly-17 to Glu-26, Lys-32 to Leu-37, Phe-46 to Thr-52,
	4027	4028	4029	4030		4031	4032		4033
	2 - 550	113 - 325	25 - 273	25 - 258		134 - 322	41 - 175		3 - 410
	1852	1853	1854	1855		1856	1857		1858
	HPDQR88R	HPDQS14R	HPDQS25R	HPDQS63R		HPDQS66R	HPDQS76R		HPDQT32R
	HPDQR88	HPDQS14	HPDQS25	HPDQS63		ЭЭSÖДАН	HPDQS76		НРDQТ32

																							• • • •					
Ile-103 to Gly-109, S0420: 4, S0010: 4,	Lys-128 to Gin-136. S0142: 4, L0039: 4,	L0753: 4, H0657: 3,	H0370: 3, H0618: 3,	H0251: 3, H0545: 3,	H0457: 3, H0620: 3,	H0644: 3, H0560: 3,	L0775: 3, L0663: 3,	H0672: 3, S3012: 3,	L0748: 3, S0212: 2,	S0418: 2, S0360: 2,	H0580: 2, S0222: 2,	H0427: 2, H0253: 2,	S0049: 2, H0327: 2,	L0471: 2, H0617: 2,	H0124: 2, S0366: 2,	H0412: 2, L0667: 2,	L0655: 2, H0690: 2,	H0682: 2, H0658: 2,	H0670: 2, H0660: 2,	H0627: 2, S0027: 2,	L0741: 2, L0740: 2,	H0506: 2, H0170: 1,	T0002: 1, H0686: 1,	H0381: 1, H0484: 1,	H0255: 1, H0663: 1,	H0664: 1, H0638: 1,	S0358: 1, H0675: 1,	H0637: 1, S0468: 1,
IIe-103 to	Lys-128											-	-						-		, ,							
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1,	1,	<del>-</del>	: 1,	: 1,	: 1,	<u>_</u>	: 1,	: 1,	: 1,	: 1,	1,	: 1,	1,	·. 1	<u>.</u>	. <del>.</del> .	: <b>1</b> ;		. 1,	. 1,	1,	: 1,	1,	1,	Ţ	<u>_</u>	1,	1,	1,
132	, \$0005:	H0497: 1, H0156:	318	103	H0544: 1, H0178: 1,	051	H0083: 1, H0355: 1	H0510: 1, H0594: 1	789	194	L0483: 1, T0006: 1,	424	H0031: 1, H0606: 1	674	9063	790	L0351: 1, H0494: 1,	H0561: 1, S0352:	633	441	426:	H0529: 1, L0369: 1	646	662	997	L0650: 1, L0376: 1	.0776: 1, L0657:	.0636: 1, L0542:	.0783: 1, L0787:
I, S0132.	, S0	, H(	, H0	l, T0	l, H(	l, S0	I, H(	I, H(	I, H(	, L0	, T0	I, H(	l, H(	l, H(	I, H(	l, TC	, HC	l, S0	, H0	l, S0	, S0	1, 10	, 10	, L0	1,		, 1	, LO	, L0
H0208: 1	78: 1	77: 1	21: 1	52: 1	4.	72: ]	83: 1	10: 1	88: 1	22: 1	33: 1	33: 1	31: 1	56: 1	H0591: 1	H0087: 1	51: 1	51:1	10:1	47: ]	4.	29: ]	72: 1	0:1	58: 1	50: 1	76: 1	36: 1	33: 1
H02	S0278: 1	H04	007	H00	H05	H0172:	00H	H05	H013	H06	248	H00	H00	H01	H05	H000	103	H05	<b>S04</b>	H06	S034	H05	L037	F08	L07	F06	L07	100	L07
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L0666: 1, L0664: 1, L0665: 1, H0593: 1, H0684: 1, H0435: 1, H0659: 1, S0328: 1, S0330: 1, H0521: 1, H0555: 1, H0631: 1, L0744: 1, L0750: 1, L0777: 1, L0752: 1, L0757: 1, L0758: 1, L0596: 1, L0485: 1, L0593: 1, L0601: 1, S0011: 1, S0026: 1,	L0731: 4, L0775: 3, L0740: 3, H0170: 2, S0426: 2, L0770: 2, L0646: 2, L0766: 2, L0754: 2, H0344: 1, H0295: 1, H0393: 1, H0592: 1, H0318: 1, S6028: 1, H0038: 1, H0551: 1, L0642: 1, L0803: 1, L0774: 1, L0776: 1, L0663: 1, H0658: 1, S0332: 1, L0776: 1, L0777: 1, L0748: 1, L0777: 1, L0752: 1, L0777: 1, H0445: 1, S0424: 1 and S0384: 1.
	Pro-25 to Thr-32.
	4034
,	3 - 269
	1859
	HPDQU81R
	HPDQU81

		AR104: 42, AR089:	0: 7, AR096:	: 2, AR061:																	H0031: 2, H0135: 1,	HUZ/Z: 1 and HUO36. 1.				
		5, AR104: 4	1, 22, AR06	152. 4, AR055	<del></del>		·				4,		).		26,	142,	68.				H0031: 2	H02/2: 1		 		
		Asn-20 to Asp-25,	Met-75 to Asp-8	Arg-144 to Thr-152. 4, AR055: 2, AR061:		Lys-1 to Leu-23,	Ala-27 to Ser-34, Gly-36 to Phe-44				Leu-11 to Cys-24	Leu-30 to Ser-36,	Gly-93 to Glu-99		Ser-120 to Tyr-126,	Gly-137 to Arg-142,	Ser-160 to Ser-168			Glu-1 to Pro-9.			Ala-2 to Gly-8.			Gly-1 to Cys-24,
4035	4036	4037				4038		4039	4040	4041	4042			4043	4044			4045	4046	4047	4048		4049	4050	4051	4052
2 - 421	246 - 401	68 - 550		٠		113 - 391		3 - 476	3 - 437	164 - 340	29 - 430			212 - 538	3 - 506			1 - 525	1 - 384	230 - 559	79 - 270		2 - 481	1 - 177	3 - 302	2 - 307
1860	1861	1862		ı		1863		1864	1865	1866	1867			1868	1869			1870	1871	1872	1873		1874	1875	_	1877
HPDQV07 HPDQV07R	HPDQV49 HPDQV49R	HPDQW39 HPDQW39R				HPDQX13R		HPDQY23R	HPDQY65   HPDQY65R	HPDQY88 HPDQY88R	HPDQY95R			HPDQZ30R	HPDQZ65R			HPDRA44   HPDRA44R	HPDRA50R	HPDRF65R	HPDRG34R		HPDRG73R	HPDRM77   HPDRM77R	HPDRM93 HPDRM93R	HPDRO04R
HPDQV07	HPDQV49	HPDQW39				HPDQX13		HPDQY23	HPDQY65	HPDQY88	HPDQY95			HPDQZ30	HPDQZ65			HPDRA44	HPDRA50	HPDRF65	HPDRG34		HPDRG73	HPDRM77	HPDRM93	HPDRO04

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				S0132: 1, H0156: 1,	H0575: 1, H0551: 1,	H0658: 1, H0670: 1,	H0555: 1 and L0439: 1.	L0766: 11, L0752: 7,	L0754: 5, H0547: 4,	S0358: 3, S0022: 3,	L0756: 3, L0777: 3,	H0625: 2, L0065: 2,	S0438: 2, L0805: 2,	L0776: 2, H0658: 2,	S0328: 2, L0740: 2,	L0745: 2, L0747: 2,	L0750: 2, L0731: 2,	L0601: 2, H0542: 2,	H0543: 2, H0423: 2,	S0424: 2, H0341: 1,	H0661: 1, H0664: 1,	H0306: 1, H0402: 1,	H0638: 1, S0360: 1,	H0580: 1, H0645: 1,	H0443: 1, H0357: 1,	H0592: 1, H0587: 1,	H0574: 1, H0486: 1,	H0270: 1, H0156: 1,	T0048: 1, H0052: 1,
Cys-27 to Gly-43,	Ala-46 to Trp-54,	Ala-56 to Arg-68,	Phe-83 to Arg-93.	Thr-4 to His-17,	Ser-21 to Gln-27.			Thr-57 to Phe-62,	Gly-68 to Phe-73,	His-86 to Tyr-92,	Asp-97 to Phe-103.	•	,																
	,			4053				4054																					,
				249 - 509				3 - 323			,																		
		•		1878				1879																					
				HPDRO64R				HPDRP36R																					
				HPDRO64				HPDRP36																					

H0375: 1, H0687: 1, H0328: 1, H0169: 1, H0598: 1, H0551: 1, H0413: 1, T0042: 1, H0561: 1, S0422: 1, L0536: 1, L0772: 1, L0649: 1, L0803: 1, L0669: 1, H0666: 1, H0659: 1, H0651: 1, S0380: 1, H0651: 1, S0404: 1, S0406: 1, H0555: 1, L0744: 1, L0749: 1, L0753: 1, L0757: 1, L0753: 1, L0749: 1, L0753: 1, H0445: 1, S0434: 1, S0436: 1, L0599: 1, L0608: 1, L0594: 1 and		L0748: 3, H0556: 2, S0420: 2, S0045: 2, H0171: 1, H0265: 1, S0134: 1, H0657: 1,
	Gly-8 to Val-14, Gln-20 to Asp-27, Met-79 to His-88, Arg-171 to Tyr-183, Pro-198 to Gly-204.	
	4055	4056
	2 - 622	27 - 290
	1880	1881
	HPDRP41R	HPDRQ66R
	HPDRP41	HPDRQ66

H0341: 1, S0110: 1, H0661: 1, H0305: 1, H0580: 1, S0007: 1, S0046: 1, S0132: 1, S0278: 1, H0257: 1, H0069: 1, H0575: 1, H0048: 1, H0327: 1, H0412: 1, H0634: 1, H0412: 1, H0634: 1, H0633: 1, S0344: 1, H0633: 1, S0344: 1, H0633: 1, L0521: 1, L0806: 1, L0805: 1, H0672: 1, S0378: 1, L0747: 1, L0599: 1, S0026: 1 and H0542: 1.				·
	Gly-6 to Ser-16, Glu-19 to Ala-33, Glu-44 to Lys-60, Ile-135 to Lys-147.	Ala-3 to Lys-11, Gly-112 to Glu-117.	Lys-94 to Ser-100.	Lys-32 to Glu-38, Ser-44 to Ser-55, Gln-67 to Gly-78, Glu-85 to Glu-90, Gly-108 to Ser-114, Phe-149 to Lys-158.
	4057	4058	4059	4061
,	1 - 441	1 - 543	59 - 211 3 - 332	2 - 508
	1882	1883	1884	1886
	HPDRQ84R	HPDRR71R	HPDRS43R HPDRS46R	HPDRS87R
	HPDRQ84	HPDRR71	HPDRS43 HPDRS46	HPDRS87

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L0754: 19, L0731: 18,	H0521: 15, L0777: 11,	L0766: 8, L0755: 7,	H0581: 6, L0659: 6,	L0751: 6, H0486: 5,	H0266: 5, H0553: 5,	L0662: 5, L0663: 5,	H0144: 5, L0439: 5,	S0276: 5, H0638: 4,	S0360: 4, H0644: 4,	S0374: 4, S0330: 4,	L0740: 4, L0756: 4,	L0599: 4, L0362: 4,	H0423: 4, H0657: 3,	H0663: 3, H0580: 3,	H0575: 3, S0003: 3,	H0622: 3, H0124: 3,	H0264: 3, H0623: 3,	S0002: 3, L0520: 3,	L0764: 3, L0775: 3,	L0655: 3, L0519: 3,	H0519: 3, H0659: 3,	H0658: 3, S0328: 3,	L0744: 3, L0747: 3,	L0759: 3, S0026: 3,	S0194: 3, H0624: 2,	H0656: 2, H0341: 2,	S0354: 2, S0408: 2,	S0046: 2, H0619: 2,	H0013: 2, H0250: 2,
4062 Lys-25 to Arg-36.																						-			,				
4062																													
59 - 214																													
1887							_										,							.,,					
HPDRT36 HPDRT36R											,																	-	
HPDRT36										<del></del>							,												

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H0545: 2, L0471: 2,	H0428: 2, L0142: 2,	H0551: 2, T0067: 2,	H0561: 2, H0641: 2,	S0210: 2, L0772: 2,	.0771: 2, L0794: 2,	L0803: 2, L0661: 2,	t: 2, L0793: 2,	5: 2, L0665: 2,	5: 2, L0565: 2,	H0648: 2, S0152: 2,	H0522: 2, H0555: 2,	H0345: 2, S0027: 2,	.0750: 2, L0779: 2,	.0752: 2, L0758: 2,	H0445: 2, S0434: 2,	.0591: 2, L0594: 2,	H0653: 2, H0422: 2,	H0159: 1, S0134: 1,	H0583: 1, H0650: 1,	S0212: 1, H0661: 1,	H0662: 1, H0402: 1,	S0358: 1, S0444: 1,	3: 1, S0045: 1,	: 1, H0411: 1,	H0369: 1, H0370: 1,	70039: 1, T0060: 1,	H0042: 1, H0590: 1,	F0048: 1, H0318: 1,	H0596: 1, L0738: 1,
H0545	H0428	H0551	H0561	S0210	L0771	L0803	L0544	99907	80216	H0648	H0522	H0345	L0750	L0752	H0445	L0591	H0653	H0159	H0583	S0212	H0662	80358	T0008	S0132	H0369	T0039	H0042	T0048	H0596
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		_O -Lo			
H0046: 1, L0157: 1, H0565: 1, H0024: 1, S0388: 1, H0267: 1, S0250: 1, S0214: 1, H0328: 1, H0030: 1,	H0583: 1, H06/3: 1, H0169: 1, H0316: 1, H0163: 1, H0090: 1, H0591: 1, H0040: 1, H0634: 1 H0488: 1	H0268: 1, H0412: 1, H0413: 1, H0056: 1, L0435: 1, H0494: 1, S0370: 1, H0646: 1	S0270: 1, 110340: 1, H0652: 1, S0344: 1, S0426: 1, L0371: 1, L0646: 1, L0800: 1, L0765: 1, L0648: 1,	20/68: 1, L0389: 1, 20552: 1, L0774: 1, 20805: 1, L0653: 1, 20776: 1, L0658: 1, 20542: 1, L0809: 1, 20647: 1, H0701: 1, H0691: 1, S0126: 1	H0711: 1, H0683: 1, H0518: 1, S0454: 1, S0013: 1, H0479: 1, S0206: 1, L0743: 1, S0260: 1, H0343: 1,
H004 H054 S038 S025 H032	H038 H016 H016 H059 H063	H026 H041 L043	H0652: 80426: 1 L0646: 1 L0765: 1	L0768: 1 L0552: 1 L0805: 1 L0776: 1 L0542: 1 H0647: 1	H071 H051 S001 S020 S020 S026
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			3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		

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L0584: 1, H0542: 1 and	S0412: 1.	-		,										L0794: 6, L0758: 6,	L0747: 5, L0770: 4,	L0809: 4, H0620: 3,	L0764: 3, H0658: 3,	H0618: 2, H0012: 2,	H0135: 2, L0769: 2.	L0771: 2, L0773: 2,	L0662: 2, L0803: 2,	L0532: 2, S0126: 2,	L0756: 2, S6024: 1,	S0282: 1, H0638: 1,	S0420: 1, L0717: 1,	S0222: 1, H0441: 1,	H0333: 1, L0622: 1,	H0309: 1, H0597: 1,	S0388: 1, S0051: 1,
		Ala-2 to Asp-9,	Arg-18 to Gly-26,	Asn-34 to Arg-43,.	Ala-52 to Asp-57.	Leu-48 to Lys-63.		Glu-11 to Pro-16,	Arg-46 to Tyr-56,	Asp-63 to Asp-69.		Glu-54 to Val-64,	Leu-97 to Leu-105.	Ser-14 to Gly-20.															
		4063				4064	4065	4066			4067	4068		4069				1											
		3 - 560				2 - 196	2 - 334	1 - 297			458 - 703	1 - 528		300 - 596								-							
		1888	•			1889	1890	1891			1892	1893		1894															
		HPDRT37R				HPDRT38R	HPDRU03R	HPDRU37R			HPDRU71R	HPDRV73R		HPDRV79R															
		HPDRT37	11-24			HPDRT38	HPDRU03	HPDRU37			HPDRU71	HPDRV73		HPDRV79										-					

T0010: 1, H0271: 1, H0687: 1, L0483: 1, H0604: 1, H0630: 1, H0181: 1, H0617: 1, L0646: 1, L0800: 1, L0648: 1, L0374: 1, L0649: 1, L0804: 1, L0659: 1, L0806: 1, L0657: 1, L0805: 1, L0657: 1, L0577: 1, L0659: 1, L0647: 1, L0659: 1, L0647: 1, L0787: 1, L0789: 1, L0666: 1, L0663: 1, L0666: 1, L0663: 1, L0438: 1, H0670: 1, H0627: 1, L0731: 1, L0777: 1, L0731: 1, L0777: 1, L0731: 1, L0757: 1, S0031: 1, L0665: 1, H0542: 1, H0543: 1, H0542: 1, H0543: 1, H0542: 1,			
	4070 Ala-31 to Gln-37, Lys-63 to Ser-69.		Pro-3 to Gly-8, Pro-70 to Pro-85.
·	4070	4071	4072
	1 - 231	192 - 587	2 - 322
	1895	1896	1897
	HPDRW09R	HPDRW51R	HPDRY37R
	HPDRW09	HPDRW51	HPDRY37

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				<del>- v</del>	***																							
	H0457: 9, L0766: 7,	H0046: 5, H0650: 4,	H0634: 3, L0659: 3,	L0439: 3, H0716: 2,	H0656: 2, H0254: 2,	H0255: 2, H0333: 2,	H0253: 2, H0081: 2,	H0083: 2, H0628: 2,	L0761: 2, L0800: 2,	H0658: 2, L0750: 2,	H0543: 2, H0422: 2,	H0265: 1, H0657: 1,	S0001: 1, S0420: 1,	80354: 1, 80376: 1,	S0360: 1, H0722: 1,	S0045: 1, H0550: 1,	S0222: 1, H0614: 1,	H0613: 1, H0069: 1,	H0427: 1, H0575: 1,	H0318: 1, H0581: 1,	H0052: 1, H0327: 1,	H0545: 1, H0041: 1,	H0050: 1, H0354: 1,	H0266: 1, H0179: 1,	H0428: 1, H0622: 1,	S0366: 1, S0036: 1,	H0087: 1, H0264: 1,	H0488: 1, L0435: 1,
Arg-13 to Gly-26, Asn-35 to Gln-40.	Val-30 to Trp-36,	Ala-53 to Glu-67.																										-
4073	4074																											
1 - 354	3 - 509											·			**												,	
1898	1899														, - , <u> </u>	•												
HPDRZ11R	HPDRZ29R														-1													
HPDRZ11	HPDRZ29					7.																						

			•	
H0022: 1, T0041: 1, H0560: 1, S0142: 1, S0426: 1, H0695: 1, H0529: 1, L0644: 1, L0764: 1, L0662: 1, L0805: 1, L075: 1, L0809: 1, L0789: 1, L0792: 1, L0532: 1, L0665: 1, H0670: 1, H0672: 1, S0330: 1, H0521: 1, S0330: 1, H055: 1, H0436: 1, S0027: 1, S0028: 1, L0744: 1, L0749: 1, L0744: 1, L0749: 1, L0744: 1, H0445: 1, S0434: 1, H0136: 1,			L0748: 10, L0803: 3, L0439: 3, L0751: 3, L0626: 2, L0809: 2, L0790: 2, H0658: 2,	.0754: 2, L0747: 2, .0756: 2, L0752: 2,
			Pro-2 to Lys-18.	
-	4075	4076	4077	
	774 - 484	243 - 380	40 - 315	
	1900	1901	1902	
·	HPDVA01R	HPDVA06R	HPDVB37R	
	HPDVA01	HPDVA06	HPDVB37	

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L0758: 2, H0170: 1, H0645: 1, H0351: 1, H0370: 1, H0497: 1, S0388: 1, T0067: 1, L0772: 1, L0643: 1, L0804: 1, L0774: 1, L0776: 1, L0666: 1, L0776: 1, L0665: 1, L0748: 1, L0748: 1, L0749: 1, L0755: 1, L0757: 1 and S0031: 1.	-					•						-				
			Pro-8 to Pro-13.	Gln-22 to Val-33,	Pro-37 to Gly-45,	Ser-56 to Thr-65,	Arg-82 to Thr-92.	Glu-79 to Gln-86.	Met-32 to Lys-37,	Asp-44 to Ala-60.	Ala-32 to Thr-42,	Lys-55 to Phe-60,	Asp-85 to Gly-90,	Arg-95 to Thr-100.	Ile-20 to Gly-29,	Asn-82 to Thr-87.
	4078	4079	4080	4081				4082	4083		4084				4085	
	2 - 778	50 - 136	89 - 220	3 - 326				193 - 450	1 - 510		3 - 338				3 - 425	
	1903	1904	1905	1906				1907	1908		1909				1910	
	HPDVB70R	HPDVC28R	HPDVE55R	HPDVG06 HPDVG06R				HPDVG67R	HPDV125R		HPDVI95R				HPDVK74R	
	HPDVB70	HPDVC28	HPDVE55	HPDVG06				HPDVG67	HPDVI25		HPDVI95				HPDVK74	

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					H0656: 3, S0218: 1,	S0116: 1, S0356: 1,	H0586: 1, H0333: 1,	H0486: 1, H0427: 1,	S0280: 1, H0545: 1,	H0135: 1, H0087: 1,	H0695: 1, H0547: 1,	H0435: 1, H0658: 1,	H0670: 1, H0672: 1,		H0543: 1 and H0423: 1	H0656: 1, S0116: 1,	S0376: 1, T0110: 1,	T0042: 1, H0494: 1,	L0649: 1, L0774: 1,	L0665: 1, H0658: 1,	L0748: 1, L0757: 1,	H0667: 1 and H0543: 1				-			
	Gly-35 to Lys-42,	Ala-48 to Lys-54.			Gly-1 to Phe-8,	Pro-39 to Thr-61,	Pro-66 to Phe-71,	Arg-84 to Pro-89.								Ala-5 to Val-11,	Leu-15 to Lys-23,	Lys-39 to Ile-44.			•		Lys-13 to Leu-24,	Arg-31 to Pro-54.	Ala-34 to Thr-46,	Asp-59 to Lys-73,	Ala-86 to Gln-94,	Pro-99 to Gln-109,	Glu-129 to Thr-141,
4086		* 1	4087	4088	4089											4090							4091		4092				
61 - 597			2 - 697	8 - 265	1 - 303											60 - 350						- "	101 - 364		1 - 576				
1911			1912	1913	1914											1915							1916		1917				
HPDVK79 HPDVK79R			HPDVK93R	HPDVL36R	—											HPDVL52R							HPDVM61 HPDVM61R		HPDVM63   HPDVM63R				
HPDVK79			HPDVK93	HPDVL36	HPDVL45											HPDVL52							HPDVM61		HPDVM63				

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	H0521: 43, S0278: 39,	S0144: 30, S0142: 26,	H0522: 18, S0344: 15,	S0002: 14, H0638: 13,	H0580: 11, H0641: 10,	L0755: 10, L0599: 10,	H0250: 9, H0271: 8,	H0622: 8, H0575: 7,	S0426: 7, L0775: 7,	L0776: 7, L0751: 7,	L0754: 7, H0125: 6,	S0376: 6, S0132: 6,	H0069: 6, H0090: 6,	S0360: 5, H0486: 5,	S0022: 5, L0731: 5,	H0584: 4, H0657: 4,	S0354: 4, S0358: 4,	S0140: 4, H0581: 4,	H0674: 4, L0764: 4,	L0657: 4, L0665: 4,	S0052: 4, S0428: 4,	L0749: 4, L0752: 4,	H0445: 4, L0591: 4,	H0656: 3, L0785: 3,	H0663: 3, H0370: 3,	H0042: 3, H0004: 3,	H0318: 3, H0031: 3,	H0059: 3, L0769: 3,
Asp-160 to Asn- 168.	Ala-33 to Cys-41,	Thr-58 to Pro-66.																										
	4093																								•		,	
	2 - 406			•																								
	1918																											
	HPDVM86R	,	,																									
	HPDVM86															A44-98-44	-											

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5.3	); 3, ): 3,	5: 3,	8: 3,	0: 3,	2: 2,	1: 2,	2: 2,	3: 2,	1: 2,	4: 2,	2: 2, ·	7: 2,	3: 2,	1:2,	4: 2,	± 2,	7: 2,	F. 2,	1: 2,	9: 1,	: 1,	): 1,	4:1,	2: 1,	3: 1,	3: 1,	#: 1,	7: 1,	1:1,
1 0372-3 1 0646-3	L0806: 3, L0659: 3,	L0666: 3, S0126: 3,	H0658: 3, H051	H0555: 3, L0750: 3,	H0255: 2, H0662: 2,	H0637: 2, H0431: 2,	H0574: 2, H063	H0545: 2, H008	S0214: 2, H064	H0032: 2, H0634: 2,	S0440: 2, H0652	L0770: 2, L0637: 2,	L0771: 2, L0653	L0783: 2, L066	H0660: 2, H013	H0187: 2, S3014	L0748: 2, L0777: 2,	L0758: 2, S0434: 2,	L0595: 2, L0601	H0167: 1, H0159: 1,	S0342: 1, S0114	S0134: 1, H0650: 1,	H0661: 1, H0664: 1,	H0306: 1, H0402: 1	H0192: 1, S0418	H0645: 1, H0393: 1,	H0537: 1, T0104:	H0586: 1, H0497: 1,	H0331: 1, H0101: 1,
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H0635: 1, H0427: 1,	H0309: 1, H0231: 1,	H0544: 1, H0546: 1,	H0046: 1, H0012: 1,	H0620: 1, H0024: 1,	0107: 1, H0179: 1,	H0416: 1, H0188: 1,	0003: 1, H0688: 1,	H0029: 1, H0553: 1,	0142: 1, H0628: 1,	0055: 1, H0383: 1,	0673: 1, H0189: 1,	H0124: 1, H0068: 1,	H0063: 1, H0087: 1,	0472: 1, L0369: 1,	.0762: 1, L0761: 1,	.0772: 1, L0773: 1,	.0662: 1, L0767: 1,	_0387: 1, L0766: 1,	.0649: 1, L0533: 1,	.0522: 1, L0774: 1,		.0655: 1, L0379: 1,	.0629: 1, L0544: 1,	)367: 1, L0368: 1,	L0787: 1, L0788: 1,	0053: 1, S0216: 1,	S0374: 1, S0296: 1,	0682: 1, H0684: 1,	S0328: 1, S0332: 1,
)H	H	<u>H</u>	H	H	H	H	SC	H	<u> </u>	<u> </u>	H	)H	H	SC	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	SC	SC	H	SC					
	70.11		•					•																					
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H0214: 1, S0404: 1, H0576: 1, L0779: 1, L0780: 1, L0757: 1, L0593: 1, S0011: 1, H0665: 1, H0542: 1, H0423: 1 and S0458: 1.	AR039: 4, AR096: 4, AR052: 2, AR089: 2, AR061: 2, AR089: 2, AR104: 2, AR033: 1, AR055: 1, AR053: 0, L0666: 4, H0253: 2, H0622: 2, H0670: 2, L0743: 2, H0181: 1, L0743: 2, H0181: 1, L0775: 1, L0657: 1, L0657: 1, L0767: 1, L0749: 1, L0779:		H0658: 2	L0754: 2, H0685: 1, T0010: 1, H0658: 1 and H0423: 1.		
	Glu-1 to Asp-6, Thr-11 to Glu-20, Val-61 to Gln-66.	Pro-1 to Ala-9, Arg-17 to Glu-25.				Val-1 to Glu-9, Pro-26 to Gly-31, Tyr-67 to Glu-74,
	4094	4095	4096	4097	4098	4099
	1 - 465	3 - 278	29 - 421	3 - 284	1 - 333	91 - 693
	1919	1920	1921	1922	1923	1924
	HPDVO67R	HPDVQ74R	HPDVQ82R	1	HPDVT37R	HPDVU28R
	HPDV067	HPDVQ74	HPDVQ82	HPDVT30	HPDVT37	HPDVU28

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		L0777: 6, L0766: 5,	L0749: 5, L0601: 4,	L0758: 3, H0617: 2,	L0769: 2, L0794: 2,	L0805: 2, L0657: 2,	Lys-161 to Arg-167. L0665: 2, H0693: 2,	S0028: 2, L0439: 2,	L0751: 2, L0747: 2,	L0779: 2, L0588: 2,	S0114: 1, H0650: 1,	H0657: 1, H0402: 1,	H0638: 1, S0354: 1,	S0360: 1, S0045: 1,	S6026: 1, H0550: 1,	H0156: 1, H0253: 1,	H0421: 1, T0115: 1,	H0150: 1, H0014: 1,	S0051: 1, S6028: 1,	H0688: 1, L0483: 1,	H0181: 1, H0163: 1,	H0090: 1, H0087: 1,	H0560: 1, H0646: 1,	S0210: 1, L0763: 1,	L0638: 1, L0761: 1,	L0784: 1, L0806: 1,	L0776: 1, L0655: 1,	L0659: 1, L0384: 1,	L0789: 1, H0690: 1,
Phe-107 to Glu-118,	Lys-162 to Arg-173.	Ser-1 to His-7,	Thr-15 to Arg-29,	His-31 to Val-42,	Pro-52 to Pro-94,	Glu-113 to Ala-131,	Lys-161 to Arg-167.	•																					
		4100																											
		3 - 548							•									_											
		1925																										-	
		HPDVU72R																											
		HPDVU72	-														•												,

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H0684: 1, H0658: 1, L0752: 1, L0755: 1, L0731: 1, L0757: 1, L0595: 1, S0276: 1 and H0506: 1.			H0658: 2						-			H0271: 13, H0436: 11	L0766: 8, H0581: 5,	L0754: 5, S0242: 5,	H0556: 4, H0635: 4,	L0800: 4, L0662: 4,	L0804: 4, L0655: 4,	L0659: 4, L0789: 4,	L0751: 4, L0757: 4,	L0591: 4, S0356: 3,	H0069: 3, H0416: 3,	L0803: 3, L0747: 3,	H0445: 3, H0423: 3,	H0422: 3, H0395: 2,
	Pro-6 to Ala-16.				Arg-1 to Glu-8,	Ala-31 to Trp-39.		Ala-3 to Ala-10,	Pro-15 to Pro-23,	Glu-79 to Ser-88,	Pro-115 to Arg-122.													
	4101	4102	4103	4104	4105		4106	4107				4108												
	3 - 191	78 - 644	3 - 302	9 - 560	175 - 306		231 - 383	1 - 390				214 - 471												
	1926	1927	1928	1929	1930		1931	1932				1933												
	HPDVU88R	HPDVV78R	HPDWA35   HPDWA35R	HPDWA88   HPDWA88R	HPDWB40 HPDWB40R		HPDWC30   HPDWC30R	HPDWC75   HPDWC75R				HPDWD44 HPDWD44R												
	HPDVU88	HPDVV78	HPDWA35	HPDWA88	HPDWB40		HPDWC30	HPDWC75			1	HPDWD44												

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S0134: 2, H0662: 2, H0402: 2, S0354: 2,	S0046: 2, S0132: 2,	H0587: 2, H0642: 2,	H0014: 2, H0179: 2,	H0644: 2, H0032: 2,	H0090: 2, H0396: 2,	H0633: 2, S0422: 2,	.0375: 2, L0806: 2,	.0607: 2, L.0666: 2	L0663: 2, S0052: 2,	30053: 2, S0216: 2	10521: 2, L0740: 2	L0779: 2, L0777: 2,	.0758: 2, L0596: 2	L0599: 2, H0394: 1,	0114: 1, H0657: 1	10656: 1, S0298: 1	10306: 1, S0376: 1	10411: 1, H0607:	H0632: 1, H0257: 1	10492: 1, H0486:	.0021: 1, H0318: 1	H0196: 1, H0545:	H0457: 1, H0083:	S6028: 1, L0483: 1	H0591: 1, H0634:	H0623: 1, H0560:	H0641: 1, S0344: 1	.0770: 1, L0372: 1
S	<u> </u>	<u>- L-L-</u>	<u>il.e4</u>	<u>. 11 - 1</u>	<u> </u>	<u>1</u>	1	_		S	<u>. 14</u>	1	<u> </u>		<u>S</u>	<u> </u>	<u> </u>	<u> </u>	<u>, inderior</u>	<u></u>	<u> </u>	<u></u>	<u>;+;</u>	<u>N</u>	<u>بالمن</u>	<u>نيلين</u>	<u>i-l-i</u>	
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L0646: 1, L0794: 1, L0774: 1, L0653: 1, L0776: 1, L0657: 1, L0783: 1, L0664: 1, L0665: 1, S0428: 1, S0374: 1, H0689: 1, H0690: 1, H0658: 1, H0672: 1, S0378: 1, H06718: 1, H0576: 1, L0749: 1, H0543: 1 and S0458: 1.		Ser-1 to His-19, L0588: 18, S0408: 16, Val-86 to Pro-105, S0007: 12, S0444: 11, Pro-110 to Met-117. H0677: 11, H0648: 10, L0769: 9, H0670: 9, S0328: 9, H0651: 8, S0406: 8, H0657: 7, H0649: 7, H0659: 7, L0748: 7, H0659: 7, L0748: 7, H0659: 7, L0748: 7, H0659: 7, L0742: 6, L0775: 6, L0772: 6, L0775: 6, L0772: 6, L0772: 6, H0651: 5, S0440: 5, H0658: 5, H0696: 5, L0749: 5, H0696: 5, L0749: 5, H0623: 5, H0623: 5, H0623: 4, S0114: 4, S0134: 4,
	Asp-65 to Gly-73.	Ser-1 to His-19, Val-86 to Pro-105, Pro-110 to Met-117.
	4109	4110
·	220 - 2	3 - 353
	1934	1935
	HPDWD67R	HPDWD69R
	HPDWD67	HPDWD69

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H0656: 4, H0639: 4,	H0687: 4, H0606: 4,	.0767: 4, L0518: 4,	5286: 4, H0682: 4	752: 4, L0759: 4	L0605: 4, L0361: 4,	3685: 3, H0294:	H0305: 3, S0356: 3,	S0358: 3, S0360: 3,	H0722: 3, S0046: 3,	.0622: 3, H0486: 3,	70109: 3, T0003: 3,	70067: 3, H0412: 3,	)438: 3, S0422: 3	L0520: 3, L0371: 3,	7770: 3, L0768: 3	766: 3, L5574: 3	L0376: 3, L0776: 3,	126: 3, H0689: 3	L0740: 3, L0758: 3,	0542: 3, H0352: 3	F0002: 2, H0159: 2,	S0040: 2, H0713: 2,	H0716: 2, S0218: 2,	.0785: 2, H0661: 2,	H0638: 2, H0125: 2,	S0410: 2, H0351: 2,	H0586: 2, H0587: 2,	H0333: 2, H0492: 2,	.0623: 2, S0182: 2,
)H	<u>H</u>	77	57	<u>31</u>	<u>71</u>	H	H	OS SC	H	<u> </u>	TI	<u>H</u>	S	<u>3</u>	<u> </u>	<u> </u>	<u> </u>	SC	71	H	<u>T</u>	<u>S</u>	)H	<u> </u>	H	S	<u>H</u>	H	<u> </u>
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H0581: 2, S0049: 2,	H0083: 2, H0031: 2,	H0163: 2, H0551: 2,	H0059: 2, S0210: 2,	L0762: 2, L0764: 2,	L5564: 2, L0653: 2,	L0655: 2, L0634: 2,	L0526: 2, L0783: 2,	L0543: 2, L0368: 2,	H0691: 2, H0547: 2,	H0690: 2, H0684: 2,	S0330: 2, H0710: 2,	L0754: 2, L0747: 2,	L0750: 2, L0777: 2,	L0755: 2, L0590: 2,	L0581: 2, L0599: 2,	L0608: 2, L0604: 2,	L0362: 2, H0653: 2,	H0721: 2, H0686: 1,	S0430: 1, L0760: 1,	S0116: 1, S0212: 1,	H0484: 1, H0663: 1,	H0306: 1, H0458: 1,	H0459: 1, L0534: 1,	L0005: 1, S0442: 1,	S0376: 1, S0045: 1,	S0132: 1, S0476: 1,	H0393: 1, H0640: 1,	H0411: 1, S0278: 1,	H0455: 1, H0592: 1,
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T0039: 1, T0060: 1, H0706: 1, S0010: 1, T0048: 1, H0318: 1, H0309: 1, H0596: 1, F0115: 1, L0040: 1, H0231: 1, H0546: 1, H0545: 1, H0019: 1, S0051: 1, H0510: 1, H0375: 1, H0109: 1,	S0022: 1, H0328: 1, H0688: 1, H0039: 1, T0023: 1, T0006: 1, H0424: 1, H0628: 1, H0673: 1, H0708: 1, S0366: 1, S0036: 1, H0135: 1, H0040: 1, H0634: 1, H016: 1, H0087: 1, H0116: 1,	H0100: 1, L0564: 1, H0494: 1, H0561: 1, H0641: 1, H0646: 1, S0144: 1, S0344: 1, L0506: 1, L0761: 1, L0648: 1, L0771: 1, L0662: 1, L0521: 1, L0662: 1, L0806: 1, L0654: 1, L0661: 1,
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L0807: 1, L0542: 1, L0519: 1, L0530: 1, L0790: 1, L0663: 1, H0144: 1, H0724: 1, H0660: 1, H0666: 1, H0521: 1, S0190: 1, H0134: 1, H0187: 1, H0134: 1, L0751: 1, S0028: 1, L0751: 1, L0779: 1, L0757: 1, S0031: 1, H0445: 1, S0436: 1, S0276: 1 and S0424: 1.			H0575: 2, L0002: 1, S0336: 1, H0487: 1, L0762: 1, L0637: 1, L0805: 1, L0659: 1, H0658: 1, L0777: 1 and L0731: 1.		H0038: 5, H0616: 3, L0752: 3, S0418: 2, H0620: 2, H0547: 2, L0602: 2, H0521: 2,
	Asn-60 to Gly-72, Pro-83 to Trp-114, Ser-117 to Arg-126.	Arg-1 to Gln-9.		Pro-3 to Pro-12.	Phe-1 to Cys-13, Gly-28 to Ser-35.
	4111	4112	4113	4114	4115
	1 - 378	2 - 121	248 - 559	1 - 507	169 - 342
	1936	1937	1938	1939	1940
	HPDWD81R	HPDWE11R	HPDWE64R	HPDWF93R	HPDWG51R
	HPDWD81	HPDWE11	HPDWE64	HPDWF93	HPDWG51

L0751: 2, S0212: 1, S0282: 1, H0638: 1, S0358: 1, S0007: 1, H0261: 1, H0575: 1, S0346: 1, H0596: 1, L0471: 1, L0163: 1, H0649: 1, S0038: 1, H0569: 1, H0649: 1, S0144: 1, L0803: 1, S0126: 1, H0519: 1, S0126: 1, H0519: 1, S0126: 1, H0519: 1, S0126: 1, L0743: 1, L0744: 1, L0748: 1, L0759: 1, L0599: 1 and S0424: 1.			H0556: 30, H0659: 9, L0439: 9, S0406: 8, H0494: 7, S0360: 6, L0771: 6, H0634: 5, S0206: 5, L0777: 5, H0265: 4, H0657: 4, S0328: 4, S0152: 4, S0146: 4, L0748: 4, L0751: 4, L0749: 4, H0423: 4, S0040: 3, H0497: 3, H0623: 3,
	4		Arg-21 to Gly-32, H0556: 30, H0659. Pro-63 to Ser-79, L0439: 9, S0406: 8, Thr-92 to Pro-100, H0494: 7, S0360: 6, Glu-107 to Glu-126, L0771: 6, H0634: 5, Ser-148 to Thr-157. H0265: 4, H0657: 4, S0328: 4, S0152: 4, S0146: 4, L0748: 4, L0751: 4, L0749: 4, H0423: 4, S0040: 3, H0497: 3, H0623: 3, H06
	4116	4117	4118
	2 - 388	174 - 308	1 - 585
	1941	1942	1943
	HPDWL56 HPDWL56R	HPDWL70R	HPDWN46R
·	HPDWL56	HPDWL70	HPDWN46

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H0529: 3, L0761: 3, L0665: 3, H0144: 3,	H0555: 3, S0026: 3,	H0656: 2, H0341: 2,	S0212: 2, S0418: 2,	S0356: 2, H0675: 2,	S0046: 2, H0411: 2,	H0586: 2, H0581: 2,	H0615: 2, H0553: 2,	H0591: 2, S0440: 2,	S0422: 2, L0772: 2,	L0438: 2, H0711: 2,	H0521: 2, S0404: 2,	S3014: 2, L0743: 2,	L0740: 2, H0170: 1,	H0171: 1, H0159: 1,	H0686: 1, S0342: 1,	H0294: 1, S0114: 1,	T0049: 1, S0116: 1,	H0661: 1, H0458: 1,	S0420: 1, S0376: 1,	S0444: 1, H0437: 1,	S6022: 1, H0550: 1,	H0362: 1, H0642: 1,	H0574: 1, H0559: 1,	S0280: 1, H0590: 1,	H0004: 1, H0363: 1,	H0263: 1, H0596: 1,	H0081: 1, H0014: 1,	H0688: 1, H0628: 1,
	***************************************																		- 4144									
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L0055: 1, H0673: 1, H0663: 1, H0663: 1, L0435: 1, H0625: 1, S0002: 1, L0369: 1, L0369: 1, L0748: 1, L0764: 1, L0774: 1, L0778: 1, L0806: 1, L0806: 1, L0806: 1, L0806: 1, L0657: 1, L0792: 1, H0670: 1, H0648: 1, S0126: 1, H0648: 1, S0126: 1, H0648: 1, L0779: 1, L0747: 1, L0779: 1, L0747: 1, L0779: 1, L0747: 1, L0779: 1, L0744: 1, L0742: 1 and S0424: 1, L0744: 1, L0744: 1, L0742: 1 and S0424: 1, L0744: 1, L0742: 1 and S0424: 1, L0744: 1, L0	•		L0766: 5, H0551: 3, L0769: 3, L0639: 3, H0327: 2, S0002: 2, L0764: 2, L0659: 2,
		Gly-2 to Pro-9, Ser-24 to Thr-33.	
·	4119	4120	4121
	1 - 246	2 - 607	351 - 704
	1944	1945	1946
	HPDWN65R	HPDWN69R	HPDWO08R
	HPDWN65	HPDWN69	HPDWO08

L0663: 2, L0777: 2, S0356: 1, S0360: 1, S0410: 1, L0717: 1, H0261: 1, H0550: 1, S0222: 1, T0109: 1, H0575: 1, T0048: 1, H0575: 1, H0124: 1, H0135: 1, H0124: 1, H0135: 1, H0163: 1, L0770: 1, L0763: 1, L0770: 1, L0796: 1, L0761: 1, L0643: 1, L0542: 1, L0643: 1, L0655: 1, L0655: 1, H0547: 1, H0658: 1, H0547: 1, H0658: 1, H0547: 1, H0658: 1, H0522: 1, L0766: 1,				L0770: 12, H0657: 10, H0659: 9, L0776: 8, H0648: 8, L0755: 8,	L0774: 7, S0410: 6, H0494: 6. L0769: 6.	L0750: 6, S0408: 5,	S0440: 5, L0//5: 5,
	His-1 to Gly-13.	Arg-90 to Lys-95, Pro-121 to Trp-129.		Ala-3 to Glu-8.			
	4122	4123	4124	4125			
	386 - 568	27 - 455	2 - 358	1 - 342			
	1947		1949	1950			
	HPDWO29 HPDWO29R	HPDWO50 HPDWO50R	HPDW061 HPDW061R	HPDWO82 HPDWO82R			
	HPDW029	HPDWO50	HPDW061	HPDWO82			

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				yan																							
S0376: 4, S0360: 4, L0748: 4, L0777: 4,	.0752: 4, L0759: 4, H0341: 3, S0358: 3,	H0616: 3, L0766: 3,	.0740: 3, L0747: 3,	L0731: 3, L0758: 3,	6: 3, H0170: 2,	H0556: 2, H0685: 2,	H0656: 2, S0420: 2,	S0444: 2, T0109: 2,	H0156: 2, H0545: 2,	.0471: 2, H0031: 2,	H0040: 2, H0560: 2,	.0065: 2, S0438: 2,	3: 2, L0772: 2,	.0764: 2, L0518: 2,	L0783: 2, H0144: 2,	4: 2, H0520: 2,	H0658: 2, H0670: 2,	.0753: 2, H0445: 2,	S0434: 2, H0665: 2,	S0194: 2, S0134: 1,	6: 1, H0663: 1,	1: 1, H0638: 1,	H0125: 1, S0442: 1,	H0351: 1, H0369: 1,	H0550: 1, H0431: 1,	H0331: 1, H0069: 1,	S0346: 1, T0048: 1,
S037 L074	L075 H034	H061	L074	L073	S002	H055	H065	S044	H015	L047	H004	900T	P1076	P101	L078	S037	H065	L075	S043	S019.	S011	L048	H012	H035	H055	H033	S034
	·····			<del>n. i.</del>				· · · <del>-</del>																_			
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7 (4 )	S0182: 1, S0049: 1, H0563: 1, H0081: 1.	H0620: 1, H0014: 1,	H0373: 1, H0083: 1,	H0375: 1, H0428: 1,	H0708: 1, H0634: 1,	H0412: 1, H0413: 1,	L0475: 1, H0386: 1,	L0598: 1, H0529: 1,	L0520: 1, L0762: 1,	L0371: 1, L0638: 1,	L0373: 1, L0646: 1,	L0773: 1, L0521: 1,	L0662: 1, L0805: 1,	L0655: 1, L0517: 1,	L0540: 1, L0542: 1,	L0526: 1, L0809: 1,	L0545: 1, L0791: 1,	L0663: 1, L0665: 1,	H0691: 1, H0547: 1,	H0690: 1, H0435: 1,	H0660: 1, H0651: 1,	S0380: 1, S0406: 1,	L0749: 1, L0780: 1,	H0668: 1, H0653: 1,	S0242: 1, S0276: 1,	H0542: 1, H0422: 1 and	H0506: 1.	H0617: 8, S0404: 8,	H0484: 7, H0550: 7,
																												Asp-15 to Val-20.	
																												21 4126	
	***			••				<del></del>														,		***************************************				1951 73 - 321	
		,																										HPDWS61R 1	
														,,,														HPDWS61	

4, 4, 6, 6, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,		:: 1, 2; 1, 3; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1, 4; 1,
L0758: 5, H0606: 4, H0658: 4, H0696: 4, S0276: 4, H0295: 3, S0280: 3, H0150: 3, H0188: 3, H0163: 3, L0769: 3, S0408: 2, L0622: 2, L0623: 2, T0060: 2, T0006: 2, H0181: 2, H0673: 2, H0494: 2, L0764: 2, L0775: 2, L0776: 2,	L0514: 2, L0510: 2, L0511: 2, L0512: 2, L0540: 2, L0783: 2, L0809: 2, L0528: 2, H0683: 2, H0694: 2, L0744: 2, L0747: 2, S0031: 2, S6024: 1, H0294: 1, H0381: 1, H0483: 1, H0664: 1,	S0442: 1, S0358: 1, S0376: 1, H0411: 1, S6022: 1, H0586: 1, H0333: 1, H0036: 1, H0590: 1, H0309: 1, H0044: 1, H0121: 1, H0081: 1, H0014: 1, S0388: 1, S0051: 1, H0252: 1, H0622: 1,

L0483: 1, H0033: 1, H0111: 1, H0032: 1, H0166: 1, S0438: 1, L0762: 1, L0504: 1, L0381: 1, L0803: 1, L0375: 1, L0376: 1, L0509: 1, L0515: 1, L0548: 1, L0782: 1, L0548: 1, L0541: 1, L0543: 1, H0693: 1, S0126: 1, H0651: 1, L0777: 1, L0751: 1, L0777: 1, L0753: 1, H0445: 1, H0667: 1,	L0774: 3, H0658: 3, L0803: 2, L0439: 2, H0619: 1, H0586:-1, H0309: 1, S0366: 1, L0659: 1 and S0052: 1.	,		L0748: 18, L0755: 7, H0251: 6, L0777: 6, H0658: 4, L0754: 4,	L0779: 4, S0360: 3, S0276: 3, H0674: 2, L0767: 2, L0766: 2,
	Ala-37 to Ser-42, Gly-127 to Thr-134.	Arg-4 to Gly-17, Pro-39 to Lys-46, His-96 to Arg-102.		Leu-4 to Phe-9, Gly-29 to Glu-39.	
	4127	4128	4129	4130	
	3 - 503	12 - 746	1 - 705	1 - 702	
	1952	1953	1954	1955	
	HPDWT55R	HPDWT56R	HPDWU47R	HPDWU55R	
	HPDWT55	HPDWT56	HPDWU47	HPDWU55	

L0775: 2, L0809: 2, H0689: 2, L0757: 2, S0358: 1, S0046: 1, H0013: 1, H0427: 1, H0546: 1, H0123: 1, H0646: 1, L0769: 1, L0773: 1, L0662: 1, L0649: 1, L0774: 1, L0375: 1, L0774: 1, L0375: 1, L0776: 1, L0663: 1, L0663: 1, L0665: 1, H0144: 1, H0670: 1, S0328: 1, H0696: 1, S0328: 1, L0758: 1, L0759: 1 and S0434: 1.	L0766: 7, L0748: 6, L0771: 5, S0422: 3, H0519: 3, L0749: 3, L0756: 3, H0735: 2, H0641: 2, H0529: 2, L0659: 2, S0374: 2, L0758: 2, H0484: 1, S0442: 1, S0358: 1, S0442: 1, S0484: 1, S0410: 1, S0007: 1, H0632: 1, L0483: 1, H0666: 1, H0268: 1, S0150: 1, L0763: 1,
	Pro-50 to Trp-55.
	4131
	2 - 568
	1956
	HPDWU60R
	HPDWU60

		·
L0637: 1, L0764: 1, L0768: 1, L0774: 1, L0666: 1, H0144: 1, L0438: 1, H0520: 1, H0547: 1, H0658: 1, S0328: 1, H0539: 1, S0406: 1, S0027: 1, L0744: 1, L0751: 1, L0777: 1, L0592: 1, L0608: 1, L0593: 1, H0543: 1 and H0422: 1.		L0740: 3, L0758: 3, S0242: 3, L0598: 2, L0766: 2, L0803: 2, H0435: 2, H0648: 2, L0748: 2, L0756: 2, L0731: 2, L0757: 2, H0170: 1, S0300: 1, H0687: 1, H0046: 1, H0674: 1, H0616: 1, T0067: 1, UNKWN: 1, L0770: 1, L0637: 1, L0373: 1, L0765: 1,
L0637: 1 L0768: 1 L0666: 1 L0438: 1 H0547: 1 S0406: 1 L0744: 1 L0754: 1 L0754: 1 L0608: 1	.01,	
	Ala-51 to Tyr-56, Ala-92 to Ser-101, Ser-118 to Ile-123.	Asp-14 to Ala-19.
·	4132	4133
	2 - 370	38 - 163
	1957	1958
	HPDWU63 HPDWU63R	HPFMP90R
	HPDWU63	HPFMP90

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L0775: 1, L0784: 1, L0805: 1, L0776: 1, L0666: 1, L0664: 1, L0665: 1, L0438: 1, H0689: 1, L0439: 1, L0754: 1, L0750: 1, L0759: 1 and L0480: 1.			H0255: 2, S0114: 1,	LUSIU: 1 and 30216: 1.			L0809: 5, L0666: 4,	L0747: 3, L0750: 3,	L0764: 2, L0803: 2,	L0774: 2, L0651: 2,	L0663: 2, L0664: 2,	L0748: 2, L0756: 2,	L0779: 2, L0755: 2,	H0669: 1, H0392: 1,	H0600: 1, S0346: 1,	H0494: 1, H0646: 1,	L0763: 1, L0371: 1,	L0372: 1, L0775: 1,	L0659: 1, L0518: 1,	L0788: 1, L0665: 1,	S0330: 1, S0392: 1,
-	Phe-5 to Leu-11, Ser-20 to Arg-45.	Gly-4 to Asn-9.	Pro-11 to Lys-16,	val-18 to Arg-45, Asn-56 to Glu-67.															~		
	4134	4135	4136		4137	4138	4139														
	209 - 394	3 - 182	2 - 364		2 - 655	114 - 212	239 - 412									•	, 11 . A ^{rt}				
	1959	1960	1961		1962	1963	1964														
	HPIAL09R	HSAMY44 HSAMY44R	HSAYW59 HSAYW59R		HSCPJ17R	HSDIA22R	HSDII65R														
	HPIAL09	HSAMY44	HSAYW59		HSCPJ17	HSDIA22	HSDII65														

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L0749: 1, L0752: 1,	L0757: 1, S0260: 1,	L0596: 1, L0591: 1 and	L0608: 1.			AR033: 4, AR089: 3,			L0774: 3, L0752: 3,	L0592: 3, H0625: 2,	L0662: 2, L0747: 2,	L0777: 2, H0580: 1,	L0717: 1, H0455: 1,	S0280: 1, H0251: 1,	H0633: 1, L0773: 1,	L0768: 1, L0794: 1,	L0803: 1, L0775: 1,	L0653: 1, L0776: 1,	L0661: 1, L0659: 1,	L0526: 1, L0809: 1,	L0665: 1, H0658: 1,	H0696: 1, L0755: 1,	L0731: 1, L0757: 1,	L0759: 1 and H0352: 1.			
					Ser-20 to Ser-31.	Trp-1 to Ala-10.					,														Lys-18 to Lys-30.	Pro-14 to Lys-26.	Leu-117 to Trp-123.
				4140	4141	4142																			4143	4144	4145
				2 - 187	2 - 169	40 - 141																			40 - 180	3 - 80	2 - 400
				5961	1966	1967											·								1968	1969	1970
				HSDIX73R	HSDJI25R	HSDZE12R																			HSDZJ21R	HSIFF84R	HSKJR50R
				HSDIX73	HSDJI25	HSDZE12																			HSDZJ21	HSIFF84	HSKJR50

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															•						ļ							
	H0596: 5, S0388: 4,	H0398: 4, H0393: 4, S0412: 4, S0282: 3,	S0280: 2, H0594: 2,	H0366: 2, H0542: 2,	H0395: 1, H0589: 1,	S0356: 1, H0411: 1,	H0592: 1, H0559: 1,	H0427: 1, S0050: 1,	H0373: 1, S0344: 1,	H0436: 1, S0260: 1,	S0194: 1 and H0506: 1.						,							L0755: 5, L0748: 4,	H0616: 3, L0769: 3,	L0752: 3, L0731: 3,	L0757: 3, S0356: 2,	S0408: 2, S0046: 2,
Asn-45 to Ser-54.			•									Glu-77 to Arg-82,	Pro-132 to Met-139.	Ile-1 to Ala-11,	Asp-67 to Leu-78,	Asn-81 to Ser-90,	Pro-96 to Glu-110,	Ala-164 to Ala-171,	Gln-173 to Lys-179.	Ala-1 to Cys-21,	Trp-23 to Ser-33.		Leu-43 to Thr-58.	Ser-41 to Ile-50,	Gln-55 to Glu-65,	Cys-69 to Asp-78.		1
4146	4147											4148		4149						4150		4151	4152	4153				
2 - 196	1 - 174											1 - 612		3 - 539						1 - 162		2 - 631	1 - 342	3 - 293				*
1971	1972											1973		1974						1975		1976	1977	1978			***	
HSLHT27R	HSODB16R											HSPSB24R		HSPSB70R						HSPSB74R		HSPSB80R	HSPSC30R	HSPSE86R				,
HSLHT27	HSODB16											HSPSB24		HSPSB70					,	HSPSB74		HSPSB80	HSPSC30	HSPSE86				

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																2									•				
.0770: 2, L0771: 2,	.0776: 2, L0526: 2,	.0747: 2, L0750: 2,		L0759: 2, L0588: 2,	[0170: 1, L0459: 1,	H0484: 1, S0358: 1,	S0360: 1, H0637: 1,	0045: 1, S0132: 1,	H0393: 1, S0278: 1,	T0039: 1, H0427: 1,	H0318: 1, S0049: 1,	[0009: 1, H0081: 1,	0003: 1, H0051: 1,	H0083: 1, S0003: 1,	H0622: 1, H0708: 1,	H0316: 1, H0038: 1,	H0063: 1, H0412: 1,	S0038: 1, S0150: 1,	10529: 1, L0762: 1,	L0763: 1, L0646: 1,	.0644: 1, L0768: 1,	.0766: 1, L0774: 1,	.0775: 1, L0661: 1,	.0657: 1, L0782: 1,	.0788: 1, L.0666: 1,	.0665: 1, H0683: 1,	H0660: 1, S0378: 1,	S0406: 1, L0777: 1,	H0445: 1 and H0542: 1.
<u>, , , , , , , , , , , , , , , , , , , </u>	<u> 1</u>	7	<u> 1</u>	7		<u> </u>	S	S	<u> </u>	E	<u></u> <u> </u>	正	E	<u> </u>	<u> </u>	<u> </u>	<u> </u>	S	<u> </u>	1	1	7	<u>, , , , , , , , , , , , , , , , , , , </u>		<u> </u>		<u> </u>	S	<u>E</u>
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															-											vision and the state of the sta	**************************************		
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H0124: 19, H0052: 10,	L0751: 7, L0747: 7,	H0255: 6, H0441: 6,	H0556: 5, S0222: 5,	H0265: 4, S0360: 4,	H0620: 4, L0655: 4,	H0144: 4, L0439: 4,	L0596: 4, L0601: 4,	S0132: 3, H0575: 3,	H0123: 3, H0012: 3,	H0024: 3, H0617: 3,	H0087: 3, H0529: 3,	L0764: 3, L0662: 3,	L0766: 3, L0663: 3,	L0565: 3, L0438: 3,	H0660: 3, L0743: 3,	L0740: 3, H0445: 3,	H0218: 2, H0585: 2,	S0418: 2, S0444: 2,	S0408: 2, H0208: 2,	S0278: 2, H0261: 2,	H0333: 2, H0706: 2,	H0581: 2, S0049: 2,	H0009: 2, L0471: 2,	S0051: 2, T0010: 2,	H0083: 2, H0594: 2,	T0006: 2, H0628: 2,	H0038: 2, S0440: 2,	S0142: 2, S0344: 2,	L5565: 2, L5566: 2,
4154 Leu-41 to Asp-48.	1					•																							
4154																										,			_
3 - 191																													
1979																													
HSPSG03R																											,		
HSPSG03													.4					·											

L0776: 2, L0657: 2,	.0659: 2, L0666: 2,	.0665: 2, H0683: 2,	H0658: 2, H0670: 2,	S0146: 2, L0748: 2,	.0756: 2, L0752: 2,	.0755: 2, L0731: 2,	.0758: 2, L0587: 2,	.0361: 2, H0624: 1,	70002: 1, H0141: 1,	H0717: 1, S0402: 1,	H0295: 1, S0114: 1,	.0785: 1, H0341: 1,	S0212: 1, S0282: 1,	H0722: 1, S0007: 1,	30046: 1, S0476: 1,	H0619: 1, S0300: 1,	I0351: 1, H0411: 1,	H0392: 1, H0574: 1,	H0492: 1, L0622: 1,	.0623: 1, H0244: 1,	H0250: 1, H0156: 1,	H0618: 1, T0048: 1,	10434: 1, H0309: 1,	H0597: 1, H0231: 1,	H0544: 1, H0546: 1,	H0046: 1, H0150: 1,	H0050: 1, S0050: 1,	H0016: 1, H0373: 1,	H0051: 1, H0071: 1,
1				<u>S</u>	<u> </u>				<u> </u>	<u></u>	<u>,</u>		<u> </u>	<u>-  -  </u>	<u> </u>				<u></u>						<u>- 144</u>	<u>114</u>			F
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	H0687: 1, S0022: 1,	H0252: 1, H0615: 1,	H0039: 1, H0035: 1,	H0604: 1, H0424: 1,	H0213: 1, L0055: 1,	H0674: 1, H0068: 1,	.35: 1, H0040: 1,	H0551: 1, H0412: 1,	H0059: 1, H0100: 1,	.0351: 1, L0435: 1,	H0494: 1, S0306: 1,	S0150: 1, H0647: 1,	10: 1, S0002: 1,	L0369: 1, L0762: 1,	L0640: 1, L0371: 1,	L0770: 1, L0769: 1,	.0638: 1, L0637: 1,	75: 1, L0772: 1,	L0646: 1, L0641: 1,	74: 1, L0648: 1,	L0767: 1, L0768: 1,	.0774: 1, L0653: 1,	.0493: 1, L0559: 1,	.0635: 1, L0783: 1,	.0519: 1, L0545: 1,	L0541: 1, L0543: 1,	.0788: 1, L4559: 1,	S0053: 1, L0352: 1,	H0520: 1, H0547: 1,
098	HOC	H02	HOT	HOC	70H	)H0¢	10H	H05	)0H	F03	H04	S01	802	<u> </u>	90 <u>7</u>	<u> </u>	90T	1.55	90T	L03	L07	L07	L04	)     T06	T05	L05	L07	00S	H0
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H0690: 1, H0682: 1, H0435: 1, H0539: 1, H0521: 1, S0404: 1, S3012: 1, S0037: 1, S3014: 1, S0028: 1, S0206: 1, L0742: 1, L0750: 1, L0779: 1, L0753: 1, L0757: 1, L0593: 1, S0276: 1, H0423: 1, H0506: 1,					•				•	_							
		Glu-6 to Thr-11,	His-31 to Asn-36,	Thr-68 to Ile-76,	Met-80 to Arg-89,	Glu-123 to Gln-132,	Arg-140 to Leu-147.	Glu-1 to Ile-6.	Pro-36 to Lys-44,	Ile-46 to Ser-52,	Val-82 to Gln-89,	Gly-99 to Ala-104,	Tyr-165 to Leu-171.				Asp-7 to Lys-15, His-142 to Glu-156,
	4155	4156						4157	4158					4159	4160	4161	4162
	2 - 784	3 - 596						123 - 608	94 - 651					11 - 793	3 - 431	3 - 539	3 - 734
	1980	1981						1982	1983					1984	1985	1986	1987
	HSPSG13R	HSPSG42R						HSPSG50R	HSPSG89R					HSPSH39R	HSPSH41R	HSPSH49R	HSPSI65R
	HSPSG13	HSPSG42						HSPSG50	HSPSG89					HSPSH39	HSPSH41	HSPSH49	HSPSI65

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	H0124: 19, H0052: 10,	LU/31: /, LU/4/: /, H0255: 6, H0441: 6,	H0556: 5, S0222: 5,	H0265: 4, S0360: 4,	H0620: 4, L0655: 4,	H0144: 4, L0439: 4,	L0596: 4, L0601: 4,	S0132: 3, H0575: 3,	H0123: 3, H0012: 3,	H0024: 3, H0617: 3,	H0087: 3, H0529: 3,	L0764: 3, L0662: 3,	L0766: 3, L0663: 3,	L0565: 3, L0438: 3,	H0660: 3, L0743: 3,	L0740: 3, H0445: 3,	H0218: 2, H0585: 2,	S0418: 2, S0444: 2,	S0408: 2, H0208: 2,	S0278: 2, H0261: 2,	H0333: 2, H0706: 2,	H0581: 2, S0049: 2,	H0009: 2, L0471: 2,	S0051: 2, T0010: 2,	H0083: 2, H0594: 2,	T0006: 2, H0628: 2,	H0038: 2, S0440: 2,	S0142: 2, S0344: 2,
Glu-181 to Phe-190.													,								,							
	4163																						_					
	2 - 310																									- No.		
	1988																											
	HSPSJ71R			,																								
	HSPSJ71																											

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.5565: 2, L5566: 2,	.0776: 2, L0657: 2,	.0659: 2, L0666: 2,	.0665: 2, H0683: 2,	H0658: 2, H0670: 2,	S0146: 2, L0748: 2,	.0756: 2, L0752: 2,	.0755: 2, L0731: 2,	.0758: 2, L0587: 2,	361: 2, H0624: 1,	T0002: 1, H0141: 1,	717: 1, S0402: 1,	1295: 1, S0114: 1,	L0785: 1, H0341: 1,	212: 1, S0282: 1,	722: 1, S0007: 1,	046: 1, S0476: 1,	H0619: 1, S0300: 1,	351: 1, H0411: 1,	H0392: 1, H0574: 1,	H0492: 1, L0622: 1,	.0623: 1, H0244: 1,	H0250: 1, H0156: 1,	618: 1, T0048: 1,	434: 1, H0309: 1,	H0597: 1, H0231: 1,	544: 1, H0546: 1,	H0046: 1, H0150: 1,	H0050: 1, S0050: 1,	H0016: 1, H0373: 1,
1.5.	<u>LO</u>	TO	<u>ro</u>	OH HO	20.	<u>[</u> [0]	<u>LO</u>	<u> </u>	<u> </u>	TOL	OH	OH	ro,	<u>20S</u>	OH	<u>20(</u>	HO	OH	HO	OH HO	<u> </u>	OH	OH	HO	HO	HO	HO	HO	HO
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H0051: 1, H0071: 1,	S6028: 1, H0271: 1, H0687: 1, S0022: 1.	H0252: 1, H0615: 1,	0039: 1, H0033: 1,	0604: 1, H0424: 1,	0213: 1, L0055: 1,	0674: 1, H0068: 1,	H0135: 1, H0040: 1,	0551: 1, H0412: 1,	0059: 1, H0100: 1,	0351: 1, L0435: 1,	H0494: 1, S0306: 1,	S0150: 1, H0647: 1,	0210: 1, S0002: 1,	0369: 1, L0762: 1,	0640: 1, L0371: 1,	0770: 1, L0769: 1,	L0638: 1, L0637: 1,	.5575: 1, L0772: 1,	3646: 1, L0641: 1,	0374: 1, L0648: 1,	L0767: 1, L0768: 1,	.0774: 1, L0653: 1,	0493: 1, L0559: 1,	L0635: 1, L0783: 1,	.0519: 1, L0545: 1,	.0541: 1, L0543: 1,	.0788: 1, L4559: 1,	S0053: 1, L0352: 1,
H	N. H	H	H	H	H	) <u>H</u>	H	H	<u>)H</u>	<u> </u>	H	SC	<u>SC</u>	<u> </u>	<u> 11</u>	<u>11</u>	<u> </u>	<u>1</u>	<u>11</u>	ĭ	<u>ă</u>	<u>1</u>	<u>1</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	SC
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H0520: 1, H0547: 1, H0690: 1, H0682: 1, H0435: 1, H0539: 1, H0521: 1, S0404: 1, S3012: 1, S0037: 1, S3014: 1, S0028: 1, S0206: 1, L0742: 1, L0750: 1, L0779: 1, L0753: 1, L0757: 1, L0593: 1, S0276: 1, H0423: 1, H0506: 1,	H0617: 14, L0665: 14, L0657: 11, H0682: 11, H0521: 10, S0360: 8, H0423: 7, H0657: 5, H0620: 5, H0687: 5, L0664: 5, H0547: 5, S0406: 5, S0376: 4, H0059: 4, H0641: 4, S0422: 4, L0648: 4, L0768: 4, H0658: 4, H0670: 4, H0666: 4, H0522: 4, H0584: 3, H0713: 3, H0716: 3, H0341: 3, H0639: 3, H0662: 3, L0775: 3, L0662: 3, L0689: 3,
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	1 - 444
	1989
	HSPSJ72R
	HSPSJ72

H0435: 3, S0328: 3,	H0445: 3, S0434: 3,	.0581: 3, L0361: 3,	H0585: 2, H0717: 2,	10049: 2, H0730: 2,	S0476: 2, S0278: 2,	H0586: 2,	H0559: 2, H0486: 2,	H0575: 2, H0253: 2,	H0622: 2,	H0606: 2, H0625: 2,	H0649: 2, L0667: 2,	.0382: 2, H0684: 2,	.0743: 2, L0751: 2,	,0599: 2, S0026: 2,	S0424: 2,	H0171: 1, H0556: 1,	H0740: 1,	H0650: 1, H0254: 1,	H0255: 1, H0661: 1,	H0663: 1, H0664: 1,	S0356: 1,	S0354: 1,	S0408: 1,	S0132: 1,	H0587: 1,	H0250: 1,	H0599: 1,	H0318: 1,	H0530: 1,
H0435: 3,	H0445: 3,	L0581: 3,	H0585: 2,	T0049: 2,	S0476: 2,	H0550: 2, H0586:	H0559: 2,	H0575: 2,	H0581: 2,	H0606: 2,	H0649: 2,	L0382: 2,	L0743: 2,	L0599: 2,	H0543: 2,	H0171: 1,	S0040: 1, H0740: 1	H0650: 1,	H0255: 1,	H0663: 1,	H0125: 1, S0356:	S0442: 1, S0354:	50358: 1,	H0722: 1, S0132:	S6026: 1, H0587:	L0623: 1, H0250:	L0021: 1, H0599:	T0082: 1, H0318:	H0327: 1, H0530:
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l, L0471: 1, H0023: 1.	H0014: 1,	H0071: 1,	H02/5: 1, H0510: 1	H0271: 1,	H0615: 1,	H0553: 1,	H0124: 1,	H0477: 1,	H0561: 1,	30438: 1,	L0371: 1,	.5575: 1,	.0772: 1,	.0645: 1,	.0774: 1,	.0651: 1,	.0806: 1,	.0559: 1,	.0384: 1,	10698: 1,	H0519: 1,	H0660: 1,	30454: 1,	50146: 1,	H0727: 1,	50027: 1,	.0596: 1,
H0150: 1, 1 H0012: 1, 1	H0024: 1, H0014:	S0388: 1, F	H010/: 1, H02/5: 1, H0354: 1 H0510: 1	H0247: 1, 1	H0286: 1, H0615: 1	H0688: 1, H0553: 1	H0181: 1, 1	H0316: 1, H0477: 1	H0100: 1, H0561: 1	S0450: 1, S	H0529: 1, L0371:	L0769: 1, I	L0761: 1, I	L0646: 1, I	L0766: 1, L0774: 1,	L0375: 1, I	L0523: 1, I	L0658: 1, I	L0783: 1, L0384: 1,	L0793: 1, F	H0726: 1, H0519:	H0683: 1, H0660: 1	S0330: 1, S	H0696: 1, S0146: 1,	H0576: 1, H0727:	H0732: 1, S0027:	S0031: 1, L0596: 1
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H0542: 1, H0422: 1, S0456: 1 and H0352: 1.			H0683: 242, S0358: 3, L0745: 3, H0656: 2, H0484: 2, S0354: 2, H0370: 2, H0427: 2, H0521: 2, S0001: 1, H0619: 1, H0692: 1, H0626: 1, H0288: 1, H0135: 1, H0136: 1, H0136: 1, L0774: 1, L0654: 1, L0438: 1, H0593: 1, H0593: 1, H0593: 1, H0707: 1, H06439: 1, H0707: 1, H0707: 1, H06439: 1, H0707: 1, H					
	Pro-6 to Gly-13, Pro-23 to Lys-32, Lys-94 to Ala-112.	Glu-17 to Asp-32.				Ala-1 to Lys-9, Val-11 to Trp-17.		Ser-1 to Thr-8,
	4165	4166	4167	4168	4169	4170	4171	4172
	1 - 339	1 - 327	2 - 442	2 - 406	244 - 438	2-61	46 - 210	36 - 302
	1990	1991	1992	1993	1994	1995	1996	1997
	HSPSQ22R	HSPSQ57R	HSPSY67R	HSPSZ69R	HSPTA57R	HSPTN57R	HSSDM17R	HSWBF04R
	HSPSQ22	HSPSQ57	HSPSY67	69ZSdSH	HSPTA57	HSPTN57	HSSDM17	HSWBF04

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					L0803: 10, L0794: 4,	L0779: 4, L0789: 2,	H0648: 2, S0442: 1,	S0045: 1, S0036: 1,	L0520: 1, L0763: 1,	L0769: 1, L0800: 1,	L0644: 1, L0764: 1,	L0773: 1, L0767: 1,	L0804: 1, L0774: 1,	1 0805-1 1 0517-1	H0659: 1, L0777: 1 and	L0758: 1.	H0615: 2 and S0134: 1.								L0439: 15, H0052: 11,	S0007: 9, L0438: 6,	L0731: 6, L0779: 5,	L0754: 4, H0550: 3,	LU/69: 3, SU126: 3,
Glu-17 to Ala-32,	Arg-39 to Trp-47.	Met-9 to Arg-14,	Leu-23 to Lys-29,	Lys-50 to Asn-56.	Ser-7 to Gly-12,	Pro-23 to Pro-40,	Ala-49 to Val-54.										Ser-4 to Thr-10,	Leu-42 to Pro-51.	Asp-55 to Val-63,	Cys-80 to Arg-92.		Pro-8 to Trp-14,	Arg-20 to Ser-27,	Glu-52 to Glu-60.	Pro-26 to Gly-39,	Pro-68 to Arg-75.			
		4173			4174												4175		4176		4177	4178			4179				
		188 - 364			84 - 308				1								136 - 297		131 - 406		107 - 295	169 - 423			94 - 366				
		1998			1999												2000		2001		2002	2003			2004				
		HSWBP42R	,		HSXEM65R												HTGAR42R		HTLCU84R		HTSHG06R	HTTDP76R			HUFCQ37R				
		HSWBP42			HSXEM65												HTGAR42		HTLCU84		HTSHG06	HTTDP76			HUFCQ37				

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																_							
L0743: 3, H0194: 2, H0687: 2, H0623: 2, L0768: 2, L0776: 2,	.0659: 2, L0666: 2, .0663: 2, H0689: 2,	S0330: 2, L0748: 2, L0786: 2, L0777: 2,	0752: 2, L0758: 2, 0608: 2, H0352: 2	H0662: 1, S0356: 1,	)354: 1, S0444: 1,	045: 1, S0476: 1,	0441: 1, H0431: 1,	0333: 1, H0642: 1,	0575: 1, H0590: 1,	.0048: 1, H0150: 1,	S0388: 1, H0252: 1,	0039: 1, H0135: 1,	H0038: 1, H0264: 1,	H0494: 1, L0770: 1,	372: 1, L0646: 1,	.0521: 1, L0794: 1,	J0803: 1, L0775: 1,	.0653: 1, L0657: 1,	.0809: 1, L0792: 1,	.0664: 1, H0144: 1,	L0352: 1, H0519: 1,	H0593: 1, H0658: 1,	H0672: 1, H0539: 1,
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S0406: 1, L0751: 1,	L0749: 1, L0756: 1,	L0753: 1 and H0506: 1.																									
			Arg-8 to Arg-28.	Arg-11 to Arg-18,	Ser-42 to Arg-52,	Met-62 to Pro-73,	Pro-102 to Gly-115.			Arg-2 to Gly-12,	Arg-28 to Gly-41,	Gly-48 to Val-68,	Lys-94 to Arg-118.	Met-4 to Thr-22,	Asp-45 to Gly-50,	Gly-65 to Asp-70,	Lys-96 to Asp-104,	Ile-121 to Leu-126,	Met-133 to Glu-144,	Ala-149 to Asn-156.	Ile-36 to Glu-41,	Glu-55 to Lys-63,	Lys-68 to Gln-81,	Pro-84 to Lys-90,	Pro-108 to Ser-119.	Pro-22 to Pro-28,	Glu-109 to Arg-118.
	_		4180	4181				4182	4183	4184				4185		-					4186					4187	
			2 - 349	19 - 390				187 - 288	351 - 620	1 - 462		•		94 - 618							208 - 717					2 - 373	
			2005	2006				2007	2008	2009			***************************************	2010				,			2011					2012	
			HULAP70R	HUSGA11R				HUSIL88R	HUUCH08 HUUCH08R A	HUVFA39R				HVCAA31 HVCAA31R							HVCAA37R					HVCAA68 HVCAA68R	
			HULAP70	HUSGA11				HUSIL88	нииснов	HUVFA39				HVCAA31					_		HVCAA37					HVCAA68	

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	H0666: 696, H0660:	11, L0666: 7, H0617: 4,	L0664: 4, H0549: 3,	H0620: 3, H0181: 3,	H0593: 3, H0684: 3,	H0484: 2, H0619: 2,	H0051: 2, H0606: 2,	H0670: 2, L0748: 2,	L0439: 2, S0040: 1,	H0483: 1, H0255: 1,	H0662: 1, S0007: 1,	H0486: 1, H0052: 1,	H0597: 1, H0046: 1,	H0009: 1, H0012: 1,	H0059: 1, T0041: 1,	H0517: 1, L0770: 1,	L0764: 1, L0803: 1,	L0783: 1, L0809: 1,	H0435: 1, H0658: 1,	H0539: 1, H0521: 1,	H0696: 1 and S0434: 1.						L0769: 7, L0747: 7,	L0777: 7, L0752: 7,	L0665: 6, L0770: 5,
																			ſ			Arg-1 to Gln-18,	Asp-52 to Leu-57,	Asp-67 to Lys-74,	Asp-85 to Ala-92.				
4188	4189																					4190				4191	4192		
1 - 462	2 - 649																		-			353 - 664				3 - 758	3 - 224	_	
2013	2014																					2015				2016	2017		
HVCAA94 HVCAA94R	HVCAB02 HVCAB02R																					HVCAB03R				HVCAB18R	HVCAB44 HVCAB44R		,
HVCAA94	HVCAB02																					HVCAB03				HVCAB18	HVCAB44		

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L0766: 5, L0779: 5, L0771: 4, L0666: 4, L0439: 4, L0751: 4, H0052: 3, H0135: 3, L0762: 3, L0775: 3, L0806: 3, L0809: 3, L0647: 3, S0404: 3, L0731: 3, S0360: 2, H0083: 2, H0412: 2,	L0761: 2, L0764: 2, L0761: 2, L0764: 2, L0783: 2, L0532: 2, L0783: 2, L0788: 2, L0750: 2, L0788: 2, L0759: 2, H0543: 2, H0265: 1, S0218: 1, H0667: 1, H0254: 1, H0661: 1, H0402: 1, S0354: 1, S0046: 1,	H0619: 1, S6026: 1, L0717: 1, H0409: 1, H0587: 1, H0486: 1, H0013: 1, H0699: 1, L0022: 1, H0599: 1, L0022: 1, H0575: 1, H0597: 1, H0544: 1, H0546: 1, H0150: 1, H0057: 1, H0014: 1, S0003: 1, H0252: 1,
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0: 1, 7: 1, 5: 1, 6: 1, 6: 1, 7: 1, 8: 1, 9: 1, 6: 1, 6: 1, 6: 1, 6: 1, 6: 1,					
H0615: 1, H0030: 1, H0644: 1, H0617: 1, S0364: 1, H0316: 1, H0063: 1, H0646: 1, S0426: 1, L0369: 1, L0772: 1, L0773: 1, L0772: 1, L0774: 1, L0767: 1, L0774: 1, L0757: 1, L0774: 1, H055: 1, L066: 1, H0520: 1, H0689: 1, H0670: 1, H0689: 1, H0666: 1, S0152: 1, H0521: 1, H0436: 1, S0206: 1, L0744: 1, L0786: 1, L0755: 1, L0786: 1, L0362: 1, H0422: 1, S0456: 1 and L0600: 1.					
			Lys-6 to Thr-11, Gly-22 to Phe-30, Leu-40 to Gly-53, Arg-56 to Lys-64, Lys-93 to Leu-101, Met-176 to Leu-181	Arg-7 to Asp-13.	
	4193	4194	4195	4196	4197
:	4 - 612	1 - 357	83 - 739	319 - 417	1 - 369
	2018	2019	2020	2021	2022
	HVCAB52 HVCAB52R	HVCAB57R	HVCAB88R	HVCAC42R	HVCAD52R
	HVCAB52	HVCAB57	HVCAB88	HVCAC42	HVCAD52

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									S0358: 7, H0659: 7,	H0542: 7, H0543: 6,	L0666: 5, L0747: 5,	S0418: 4, H0494: 4,	L0657: 4, L0517: 4,	S0374: 4, L0731: 4,	L0596: 4, H0341: 3,	H0385: 3, S0346: 3,	H0553: 3, S0144: 3,	S0210: 3, L0764: 3,	L0659: 3, L0663: 3,	L0664: 3, H0521: 3,	L0754: 3, L0779: 3,	L0752: 3, L0755: 3,	H0445: 3, H0422: 3,	T0049: 2, S0116: 2,	S0212: 2, S0282: 2,	50376: 2, 50360: 2,	S0045: 2, H0486: 2,	H0250: 2, H0427: 2,	H0581: 2, H0251: 2,
Tyr-44 to Asp-49,	Pro-132 to Leu-139,	Cys-168 to His-174.	Pro-49 to Val-58,	Gln-60 to Gln-78,	Arg-85 to His-99,	Phe-122 to Asp-128,	Arg-157 to Arg-163,	Leu-178 to Thr-193.	Gly-19 to Ala-24,	Asn-32 to Val-38.																			
4198			4199						4200																				
49 - 663	-		3 - 605						2 - 493																				
2023			2024						2025																				
HVCAE01 HVCAE01R			HVCAE15R						HVCAE22R																				
HVCAE01			HVCAE15						HVCAE22																				

H0545: 2, H0083: 2,	H0510: 2, H0412: 2,	S0422: 2, L0769: 2,	L0637: 2, L0646: 2,	L0651: 2, H0144: 2,	H0519: 2, H0660: 2,	S0380: 2, L0740: 2,	L0608: 2, L0603: 2,	H0668: 2, H0667: 2,	S0412: 2, H0265: 1,	T0002: 1, S0402: 1,	S6024: 1, H0657: 1,	H0656: 1, H0663: 1,	H0638: 1, H0580: 1,	H0208: 1, S0046: 1,	L0717: 1, S0278: 1,	H0370: 1, H0586: 1,	H0497: 1, H0574: 1,	T0109: 1, H0156: 1,	H0575: 1, H0590: 1,	H0318: 1, S0049: 1,	H0544: 1, H0572: 1,	H0123: 1, L0471: 1,	H0024: 1, H0373: 1,	L0163: 1, S0388: 1,	H0355: 1, H0375: 1,	S6028: 1, H0267: 1,	H0687: 1, S0312: 1,	S0250: 1, S0003: 1,	H0316: 1, H0598: 1,
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H0163: 1, H0551: 1, H0623: 1, H0059: 1, T0042: 1, H0625: 1, H0561: 1, H0639: 1, S0150: 1, H0633: 1, H0646: 1, S0426: 1, L0598: 1, H0529: 1, H0517: 1, L0761: 1, L0766: 1, L0775: 1, L0763: 1, L0662: 1, L0769: 1, L0775: 1, L0809: 1, L0775: 1, H0593: 1, L0382: 1, H0593: 1, S0126: 1, H0666: 1, S0328: 1, H0666: 1, S0328: 1, H06436: 1, S0037: 1, S0027: 1, S0032: 1, L0439: 1, L0756: 1, S0031: 1, L0588: 1, L0439: 1, L0756: 1,		
·	Asn-20 to Gln-27.	Arg-92 to Arg-101, Lys-134 to Asn-140, Ser-149 to Thr-159, Gly-166 to Ile-175.
	4201	4202
	75 - 572	3 - 551
	2026	2027
	HVĆAE56R	HVCAG56 HVCAG56R
	HVCAE56	HVCAG56

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	H0620: 16, L0747: 12,	H0599: 11, L0758: 9,	S0358: 8, L0751: 7,	L0754: 7, L0596: 7,	H0556: 6, H0393: 5,	H0706: 5, H0052: 5,	H0616: 5, H0529: 5,	L0774: 5, L0776: 5,	H0483: 4, S0442: 4,	H0253: 4, H0012: 4,	H0083: 4, S0150: 4,	L0662: 4, H0670: 4,	H0521: 4, L0748: 4,	L0581: 4, H0543: 4,	H0341: 3, S0376: 3,	H0580: 3, S0007: 3,	S0280: 3, H0036: 3,	H0618: 3, H0581: 3,	H0309: 3, H0510: 3,	H0428: 3, H0040: 3,	H0087: 3, L0764: 3,	L0775: 3, L0655: 3,	L0666: 3, L0663: 3,	L0664: 3, H0547: 3,	L0749: 3, L0750: 3,	L0595: 3, H0657: 2,	H0656: 2, S0116: 2,	H0638: 2, S0356: 2,	S0360: 2, S0046: 2,
Arg-6 to Pro-21.																		•											
4203	4204					_																							: 1
150 - 509	3 - 689							****	_																				
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HVCAG86 HVCAG86R	HVCAH03R													-															,
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H0550: 2	H0370: 2	L0622: 2	H0042: 2	H0318: 2	H0373: 2	H0188: 2	H0169: 2	H0135:	H0100: 3	H0494: 2	H0509:	H0130:	L0800: 2	L0381: 2	L0378: 2	L0659: 2	H0651: 2	H0134:	S0027: 2	L0744: 2	L0731: 2	L0604: 2	H0352:	T0002: ]	H0583: 1	H0661:	S0408: 1	H0619: 1	H0351:
H0411: 2, H0550: 2,	S6014: 2, H0370: 2,	10574: 2,	.0623: 2,	0182: 2,	H0085: 2, H0373: 2,	H0275: 2, H0188: 2,	10030: 2,	10124: 2,	10038: 2,	F0042: 2, H0494: 2,	H0625: 2, H0509: 2,	10132: 2,	10538: 2,	,0768: 2,	L0784: 2, L0378: 2,	,0653: 2,	,0809: 2, H0651: 2,	H0696: 2, H0134: 2,	S3014: 2, S0027: 2,	.0743: 2,	L0740: 2, L0731: 2,	0031: 2,	H0423: 2, H0352: 2,	H0265: 1, T0002: 1,	S0134: 1, H0583: 1,	H0484: 1, H0661: 1,	_0005: 1, S0408: 1	S0045: 1, H0619: 1,	H0645: 1, H0351: 1
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H0369: 1, H0549: 1,	F0104: 1, H0592: 1,	H0587: 1, H0333: 1,	643: 1, H0331: 1,	H0632: 1, H0270: 1,	101: 1, H0013: 1,	575: 1, S0010: 1,	H0196: 1, H0263: 1,	115: 1, H0597: 1,	H0530: 1, H0545: 1,	009: 1, H0571: 1,	H0081: 1, H0050: 1,	024: 1, H0095: 1,	L0163: 1, H0051: 1,	388: 1, H0107: 1,	H0375: 1, H0266: 1,	S0334: 1, H0288: 1,	H0286: 1, H0252: 1,	039: 1, H0424: 1,	H0213: 1, H0181: 1,	H0673: 1, H0674: 1,	364: 1, H0708: 1,	S0366: 1, S0036: 1,	591: 1, H0551: 1,	488: 1, H0412: 1,	413: 1, H0623: 1,	F0041: 1, L0475: 1,	H0560: 1, H0561: 1,	S0306: 1, H0714: 1,	H0641: 1, H0633: 1,
0H	OL	OH	0H	OH	OH	HO	HO	IOI	OH	OH HO	OH	0H	01	<u>20S</u>	HO	<u>20S</u>	) HO	OH	HO	OH	30S	SOS	OH	0H	OH HO	<u>T</u> 0(	HO	30S	HO
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H0647: 1, S0144: 1, S0142: 1, S0142: 1, S0142: 1, S0142: 1, L0762: 1, L0762: 1, L0763: 1, L0769: 1, L0769: 1, L0770: 1, L0770: 1, L0770: 1, L0772: 1, L0771: 1, L0771: 1, L0771: 1, L0772: 1, L0773: 1, L0646: 1, L0373: 1, L0648: 1, L0773: 1, L0648: 1, L0773: 1, L0806: 1, L0375: 1, L0806: 1, H0693: 1, L0438: 1, H0648: 1, H0690: 1, H0648: 1, H0669: 1, H0648: 1, H0669: 1, H0648: 1, H0648: 1, H0669: 1, H0648: 1, H0648: 1, H0669: 1, H0669: 1, H0669: 1, H0669: 1, H0669: 1, H0667: 1, S0011: 1, H0667:	 H0506: 1 and H0008:	
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	 1 - 498	3 - 527
	 2030	2031
	HVCAH17R	HVCAH56R
	HVCAH17	

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L0748: 28, L0754: 27,	L0/40: 15, H0056: 13, r 0750: 13, S0007: 12	L0757: 12, S0126: 11.	S0222: 10, L0731: 10,	S0360: 9, H0144: 9,	S0358: 8, H0009: 8,	L0005: 7, S0010: 7,	H0266: 7, L0742: 7,	L0752: 7, H0547: 6,	S0408: 5, S0046: 5,	L0471: 5, S0003: 5,	S0028: 5, L0758: 5,	L0362: 5, S0026: 5,	H0294: 4, H0341: 4,	H0638: 4, S0045: 4,	H0327: 4, H0039: 4,	H0031: 4, H0413: 4,	S0210: 4, L0769: 4,	L0662: 4, L0775: 4,	L0776: 4, L0809: 4,	H0689: 4, S3014: 4,	S0206: 4, L0747: 4,	H0445: 4, L0608: 4,	H0661: 3, S0376: 3,	S0278: 3, H0369: 3,	H0441: 3, H0575: 3,	S0049: 3, S0388: 3,	S0036: 3, H0616: 3,	H0100: 3, H0494: 3,
	Met-34 to Asp-41,	Lys-05 to 1 III = / 4.																										
4207				ı.																								
67 - 453																						-						
2032																												
HVCAI08 HVCAI08R																												
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S0440: 3, L0520: 3,	LU/64: 3, SU5/4: 3,	H0682: 3, H0659: 3,	H0672: 3, S0027: 3,	L0439: 3, S0192: 3,	H0624: 2, H0170: 2,	T0002: 2, H0716: 2,	S0282: 2, H0305: 2,	S0420: 2, L0103: 2,	H0592: 2, H0586: 2,	T0039: 2, T0109: 2,	H0013: 2, S0346: 2,	T0048: 2, H0318: 2,	S0474: 2, H0251: 2,	H0597: 2, H0150: 2,	H0178: 2, H0569: 2,	H0081: 2, H0024: 2,	S0051: 2, H0615: 2,	H0428: 2, H0644: 2,	H0708: 2, H0090: 2,	H0412: 2, H0059: 2,	H0633: 2, S0142: 2,	S0422: 2, L0772: 2,	L0646: 2, L0768: 2,	L0806: 2, L0782: 2,	H0684: 2, S0328: 2,	S0378: 2, S0380: 2,	H0522: 2, H0134: 2,	S0406: 2, S3012: 2,	L0751: 2, L0755: 2,
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S0031: 2, L0605: 2,	L0592: 2, L0601: 2,	L0600: 2, L0615: 1,	H0265: 1, S0040: 1,	S0342: 1, T0049: 1,	S0134: 1, H0650: 1,	H0657: 1, S0116: 1,	H0663: 1, H0177: 1,	H0125: 1, H0192: 1,	S0348: 1, S0356: 1,	S0442: 1, S0354: 1,	S0444: 1, S0410: 1,	T0008: 1, H0580: 1,	H0208: 1, S0132: 1,	S6026: 1, S0300: 1,	H0549: 1, H0431: 1,	H0370: 1, H0438: 1,	H0574: 1, H0250: 1,	H0427: 1, H0097: 1,	T0082: 1, H0421: 1,	L2250: 1, H0309: 1,	T0110: 1, H0544: 1,	H0086: 1, H0563: 1,	H0014: 1, H0051: 1,	H0021: 1, H0083: 1,	H0594: 1, S6028: 1,	H0687: 1, H0290: 1,	H0286: 1, S0214: 1,	H0622: 1, T0023: 1,	H0111: 1, H0628: 1,
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H0617: 1, L0055: 1,	H0166: 1, H0135: 1,	H0163: 1, H0591: 1,	H0038: 1, S0112: 1,	1, T0041: 1,	1, S0014: 1,	S0438: 1, H0509: 1,	H0641: 1, H0529: 1,	L0762: 1, L4747: 1,	1, L0553: 1,	1, L0773: 1,	1, L0767: 1,		1, L0381: 1,		1, L0653: 1,	1, L0657: 1,	L0518: 1, L0783: 1,	.0545: 1, L0532: 1,	.0666: 1, L0663: 1,	S0216: 1, H0520: 1,	H0593: 1, H0711: 1,	H0690: 1, H0670: 1,	H0660: 1, H0666: 1,	H0539: 1, S0152: 1,	S0332: 1, H0521: 1,	H0704: 1, S0044: 1,	S0146: 1, S0404: 1,	1, S0260: 1,	H0444: 1, S0434: 1,
H0617:	H0166:	H0163:	H0038:	L0564:	T0042:	S0438:	H0641:	L0762:	L0372:	L0771: 1	L0521: 1	L0766: 1, I	L5574: 1	L0650: 1, I	L0376:	L0527:	L0518:	L0545:	170666:	S0216:	H0593:	H0690:	H0660:	H0539:	S0332:	H0704:	S0146:	L0749:	H0444:
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L0596: 1, L0588: 1, L0599: 1, L0366: 1, S0011: 1, H0668: 1, H0216: 1, S0242: 1, S0196: 1, H0542: 1, H0543: 1, L0697: 1, L0698: 1, S0398: 1, S0424: 1, S3020: 1 and S0460: 1.			S0408: 5, L0809: 5,	L0800: 4, L0804: 4,	H0647: 3, L0803: 3,	L0775: 3, L0805: 3,	S0126: 3, L0751: 3,	S0360: 2, S0278: 2,	H0409: 2, H0424: 2,	H0617: 2, H0494: 2,	L0783: 2, H0670: 2,	L0747: 2, L0777: 2,	L0731: 2, L0601: 2,	H0556: 1, H0295: 1,	S0116: 1, H0341: 1,	S0442: 1, S0358: 1,	S0376: 1, H0370: 1,	H0042: 1, H0575: 1,	S0049: 1, H0150: 1,	H0163: 1, S0294: 1,	S0438: 1, H0633: 1,
	Asn-1 to Lys-6.																				
	4208	4209	4210																		
	108 - 365	2 - 508	1 - 537																		
		2034	1																		
	HVCAI24R	HVCAI79R	HVCAJ27R																		
	HVCAI24	HVCAI79	HVCAJ27								-										

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H0529: 1, L0769: 1, L0374: 1, L0764: 1, L0560: 1, L0774: 1, L0876: 1, L0629: 1, L0807: 1, L0657: 1, L0659: 1, L0791: 1, L0666: 1, H0682: 1, H0683: 1, H0658: 1, H0666: 1, S0328: 1, H0539: 1, H0555: 1, L0779: 1, L0752: 1, L0779: 1, L0758: 1, L0757: 1, L0758: 1, L0757: 1, L0758: 1,				H0009: 3, H0135: 3, H0494: 3, H0265: 2, H0341: 2, H0484: 2, S0046: 2, S0222: 2, H0266: 2, S0144: 2, H0658: 2, L0742: 2, H0542: 2, H0423: 2, H0171: 1, T0002: 1,
	Lys-61 to Gln-73, Gln-81 to Ser-97.	Arg-14 to Gly-41, Arg-47 to Glu-53, Gln-56 to Lys-70.	Glu-1 to Lys-9.	
	4211	4212	4213	4215
	1 - 477	1 - 210	3 - 467	1 - 516
	2036	2037	2038	2040
:	HVCAJ81R	HVCAJ95R	HVCAK02 HVCAK02R HVCAI 06 HVCAI 06R	
	HVCAJ81	HVCAJ95	HVCAK02 HVCAI 06	HVCAO17

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H0685: 1, S0040: 1,	H0295: 1, S0420: 1,	\$0356: 1, \$0360: 1,	H0392: 1, H0586: 1,	T0109: 1, H0427: 1,	H0599: 1, H0618: 1,	HO318: 1, HO597: 1,	H0544: 1, H0012: 1,	H0024: 1, H0014: 1,	S0022: 1, H0428: 1,	H0535: 1, H0068: 1,	H0090: 1, H0040: 1,	H0063: 1, H0264: 1,	H0413: 1, T0042: 1,	H0560: 1, H0633: 1,	S0142: 1, S0422: 1,	H0529: 1, H0519: 1,	S0126: 1, H0684: 1,	H0666: 1, H0672: 1,	H0134: 1, H0214: 1,	H0631: 1, S0027: 1,	S0028: 1, L0753: 1,	_0757: 1, L0599: 1,	.0608: 1, L0594: 1,	S0026: 1, H0667: 1,	H0136: 1, S0276: 1 and	H0543: 1.			
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																											4216	4217	4218
	·				,																						10 - 306	3 - 407	28 - 480
								·												<u> </u>							2041	2042	2043
																											HVCA063R	HVCAP89R	HVCAQ53R
		-																									HVCA063	HVCAP89	HVCAQ53

		•											11																
					L0777: 12, H0341: 6,	S0440: 6, S0126: 6,	S0358: 5, H0250: 5,	H0428: 5, H0031: 5,	H0090: 5, L0747: 5,	L0731: 5, H0542: 5,	S0422: 4, H0547: 4,	L0748: 4, L0749: 4,	L0759: 4, H0624: 3,	H0580: 3, H0486: 3,	S0003: 3, S0214: 3,	H0494: 3, L0770: 3,	L0764: 3, L0758: 3,	L0599: 3, S0026: 3,	H0543: 3, H0170: 2,	H0657: 2, H0656: 2,	S0420: 2, S0442: 2,	S0444: 2, S0010: 2,	H0318: 2, H0581: 2,	H0046: 2, H0014: 2,	H0083: 2, L0483: 2,	H0040: 2, H0551: 2,	L0769: 2, L0773: 2,	L0766: 2, L0774: 2,	L0659: 2, H0144: 2,
Asp-128 to Phe-137,	Arg-145 to Arg-151.	Asp-15 to Thr-23.																					,					,	
		4219	4220	4221	4222																		4						
		193 - 402	3 - 455	2 - 715	1 - 687				•			•		7117											,				
		2044	2045	2046	2047																								
		HVCAQ84R	HVCAR87R	HVCAS08R	HVCAS52R																								
		HVCAQ84	HVCAR87	HVCAS08	HVCAS52																								

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.0565: 2, H0659: 2,	H0666: 2, H0648: 2,	S0328: 2, H0525: 2,	H0696: 2, H0134: 2,	106: 2, L0756: 2,	L0752: 2, L0757: 2,	S0436: 2, L0595: 2,	84: 2, H0506: 2,	H0171: 1, S0040: 1,	)49: 1, H0661: 1,	538: 1, S0418: 1,	54: 1, S0360: 1,	10: 1, S0007: 1,	S0300: 1, S0278: 1,	14: 1, H0431: 1,	587: 1, H0333: 1,	H0574: 1, H0270: 1,	T0040: 1, L0586: 1,	535: 1, H0156: 1,	[0082: 1, H0706: 1,	346: 1, H0421: 1,	H0052: 1, H0597: 1,	H0545: 1, H0242: 1,	.0471: 1, H0373: 1,	S0051: 1, H0375: 1,	594: 1, H0687: 1,	H0288: 1, H0328: 1,	H0553: 1, L0143: 1,	H0032: 1, H0598: 1,	H0634: 1, H0616: 1,
T05	ЮH	SO3	ЮH	S04	L07	S04	S03	.0H	)OL	)OH	S03	S04	S03	)9S	HO;	HO;	T00	ÒΗ	)OL	SO3	ЮH	HO.	<u> 107</u>	)OS	H0;	H0;	H0;	)0H	HO
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S0404: 3, L0758: 3,	S0212: 2, H0497: 2,	H0551: 2, H0412: 2,	H0561: 2, S021	L0521: 2, L0526: 2,	H0506: 2, H066	S0418: 1, S0420: 1	S0358: 1, S040	H0619: 1, H0431: 1,	H0486: 1, T004	T0060: 1, H0013: 1,	L0021: 1, H059	H0581: 1, H0052: 1	H0263: 1, H037	H0266: 1, S0312: 1	S0314: 1, S002	H0622: 1, H0553: 1	H0708: 1, H0413:	H0560: 1, L064	L0646: 1, L0764: 1	L0649: 1, L0389:	L0804: 1, L065	L0543: 1, L0789: 1	L0664: 1, H069	S0374: 1, H0520: 1	H0435: 1, H0659:	H0666: 1, S0152: 1	S0406: 1, H043	S0027: 1, L0742: 1	L0753: 1, L0595:
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H0668: 1, S0276: 1 and H0422: 1.			,			-	AR039: 419, AR096:	339, AK053: 225, AR052: 212, AR104:	70072. 212, AN104.	168, AR089: 168,	AKU0U: 114, AKU55:	108, AR055: 99,	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)													
	Arg-7 to Val-15.	Val-3 to Lys-9,	Leu-32 to Gin-40.										•	Lys-7 to Thr-13,	Asp-24 to Thr-30,	Gly-39 to Glu-52.					Ser-25 to Asn-31,	Asp-38 to Val-48,	Ser-57 to Gly-63.		Pro-1 to Ser-7,	Val-22 to Asn-29,
	4224	4225		4226	4227	4228	4229							4230			4231	4232	4233	4234	4235			4236	4237	
	3 - 404	190 - 309		3 - 431	3 - 524	3 - 251	2 - 361							22 - 318			2 - 448	2 - 298	34 - 699	1 - 156	203 - 469			1 - 315	31 - 459	
	2049	2050		2051	2052	2053	2054							2055			2056		2058	2059				2061		
	HVCAU64R	HVCBD18R		HVCBE76R	HVCBE79R	HVCBF38R	HVCBF89R							HVCBG01R			<b>HVCBQ31R</b>	HVCCA08R	HVCCK34 HVCCK34R	HVCCR91R	HVCCV93 HVCCV93R			HVCDA75 HVCDA75R	HVCDD19 HVCDD19R	
	HVCAU64	HVCBD18		HVCBE76	HVCBE79	HVCBF38	HVCBF89		-					HVCBG01			HVCBQ31	HVCCA08	HVCCK34	HVCCR91	HVCCV93			HVCDA75	HVCDD19	

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			H0666: 8, S0144: 6,	L0747: 5, H0545: 4,	L0769: 4, L0766: 4,	L0731: 4, H0341: 3,	_		L0758: 3, S0045: 2,		H0546: 2, H0135: 2,	L0803: 2, L0657: 2,	L0789: 2, L0666: 2,	S0044: 2, H0445: 2,	L0588: 2, L0594: 2,	L0601: 2, H0543: 2,	S0040: 1, H0295: 1,	H0583: 1, S0116: 1,	S0212: 1, H0661: 1,	H0664: 1, S0418: 1,	S0356: 1, S0358: 1,	S0360: 1, S0007: 1,	S0046: 1, S0132: 1,	S0278: 1, H0592: 1,	H0586: 1, H0559: 1,	H0575: 1, S0182: 1,	H0620: 1, S0388: 1,	H0083: 1, S0312: 1,
Pro-45 to Pro-51,	Arg-59 to Val-64, Val-92 to Lys-98.		Ser-56 to Phe-69,	Arg-113 to Thr-123, L0747: 5, H0545: 4,	Leu-128 to Ser-135,	Lys-148 to Ala-156,	Gly-166 to Ser-171,	Glu-188 to Leu-194,	Ala-211 to Gly-222.	•																		
		4238	4239																					1		·		
		3 - 353	2-679																									
	. '	2063													, ,													
		HVCDF50R	HVCDH77 HVCDH77R																									
		HVCDF50	HVCDH77																									

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	4240	4241	4242	4243			
	3 - 155	74 - 619	56 - 238	403 - 570			
·	2065	2066	2067	2068			<u> </u>
	HVVAB25R	HVVAB37 HVVAB37R	HVVAC18 HVVAC18R	HVVAD74 HVVAD74R			
	HVVAB25	HVVAB37	HVVAC18	HVVAD74			

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	H0672: 2, L0748: 2, H0156: 1 and H0494: 1.	L0747: 5, L0731: 4, L0742: 3, L0745: 3, L0769: 2, L0766: 2, L0774: 2, L0597: 2, L0604: 2, T0049: 1, S0358: 1, H0549: 1, H0486: 1, T0040: 1, S0280: 1, H0318: 1, H0263: 1, H0529: 1, L0640: 1, L0763: 1, L0771: 1, L0768: 1, L0659: 1, L0517: 1, L0666: 1, L0663: 1, H0648: 1, H0672: 1, H0648: 1, L0779: 1, L0750: 1, L0779: 1, L0750: 1, L0779: 1,			-			ţ	
Glu-21 to Ile-26.	Ser-1 to Asp-9, Lys-26 to Gln-36.			Gln-33 to Ala-38,	Thr-47 to Asn-64,	Pro-117 to Leu-122, Thr-160 to Gly-171.	His-1 to Trp-6,	Gly-28 to Asp-34,	Arg-41 to Ala-53,
4244	4245	4246	4247	4248			4249	-	, .
96 - 347	157 - 381	3 - 245	2 - 307	3 - 527			1 - 327		
2069	2070	2071	2072	2073			2074		
HVVAE73R	HVVAE88R	HVVAH91R	HVVAI03R	HVVAJ23R			HVVAJ28R		
HVVAE73	HVVAE88	НУУАН91	HVVAI03	HVVAJ23			HVVAJ28		

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	L0659: 55, H0644: 23,	L0748: 18, L0666: 17,	L0747: 17, H0622: 16,	S0194: 16, H0553: 15,	L0662: 15, S0126: 15,	L0740: 15, L0754: 14,	H0031: 13, H0593: 12,	L0649: 11, H0435: 11,	L0757: 11, H0124: 10,	80250: 9, 80356: 8,	H0672: 7, L0362: 7,	L0779: 6, S0210: 5,	L0771: 5, L0663: 5,	L0664: 5, H0547: 5,	L0750: 5, L0601: 5,	S0360: 4, H0619: 4,	L0764: 4, L0804: 4,	L0775: 4, S0358: 3,	H0486: 3, H0628: 3,	H0264: 3, L0451: 3,	L0776: 3, L0655: 3,	L0783: 3, H0693: 3,	H0660: 3, S0454: 3,	L0749: 3, L0605: 3,	S0192: 3, H0170: 2,	H0294: 2, S0180: 2,	H0586: 2, H0013: 2,	H0687: 2, H0428: 2,
Arg-69 to Thr-76, Leu-97 to Glu-103.																												
	4250																											
	159 - 443																										·	
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188: 2,	547: 2,	48: 2,	09: 2,	44: 2,	590: 2,	596: 2,	52: 2,	31: 2,	171: 1,	12: 1,	10: 1,	93: 1,	392: 1,	485: 1,	160: 1,	599: 1,	518: 1,	385: 1,	)46: 1,	171:1,	003: 1,	339: 1,	111:1,	66: 1,	040: 1,	100: 1,	509: 1,	763: 1,	72: 1,
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L0646: 1, L0768: 1, L0375: 1, L0784: 1, L0806: 1, L0805: 1, L0653: 1, L0654: 1, L0517: 1, L0384: 1, L0789: 1, L0791: 1, L0789: 1, L0791: 1, H0689: 1, H0520: 1, H0689: 1, R0152: 1, H0704: 1, R0152: 1, R0027: 1, S014: 1, S0432: 1, S114: 1, S0432: 1, S114: 1, S0432: 1, S114: 1, S0432: 1, S114: 1, L0744: 1, L0758: 1, L0744: 1, L0758: 1, L0744: 1, L0758: 1, L0742: 1, S0196: 1, L0599: 1, S0196: 1, L0600: 1.			L0747: 22, L0599: 11, L0766: 9, L0748: 9, L0483: 8, L0740: 7, L0665: 5, L0754: 5,
		Lys-1 to Lys-14, Phe-21 to Trp-26, Val-87 to Cys-92, Thr-139 to Gln-153, Gln-156 to Lys-162, Glu-171 to Leu-177.	
	4251	4252	4253
	121 - 312	3 - 782	372 - 584
	2076	2077	2078
	HVVAK42 HVVAK42R	HVVAK46R	HVVAK68R
	HVVAK42	HVVAK46	HVVAK68

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				-																								4254	4255
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																												HVVAK85R	HVVAL81R
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1060: 4, 1060: 3	06/4: 19, 309: 15,	38: 7,	4: /, 24: 6,	72: 6,	50: 5,	32: 4,	30: 4,	55: 4,	[8: 3,	40: 3,	16: 3,	4: 2,	22: 2,	16: 2,	.0646: 2,	52: 2,	33: 2,	96: 2,	.0747: 2,	06: 2,	6: 1,	43: 1,	53: 1,	04: 1,	[4: 1,	73: 1,
AR096: 5, AR060: AR055: 4, AR061:	H0169: 21, H06/4: 19, L0754: 19, H0309: 15,	T0060: 7, H0038: 7,	50358: 6, H0124: 6,	H0163: 6, H0672: 6,	L0731: 6, L0750: 5,	L0603: 5, H0032: 4,	H0616: 4, S0330: 4,	L0749: 4, L0755: 4,	H0597: 3, S0318: 3,	H0622: 3, L0540: 3,	S0328: 3, S0406: 3,	L0758: 3, S0444: 2,	H0486: 2, H0122: 2,	H0355: 2, S0316: 2,	L0770: 2, L064	L0771: 2, L0662: 2,	L0364: 2, L080	L0783: 2, H069	L0743: 2, L074	L0581: 2, H0506: 2,	S0356: 1, S0376: 1,	H0675: 1, H0643: 1,	H0706: 1, H0253: 1,	H0085: 1, H0204: 1,	H0510: 1, S0314: 1,	H0553: 1, H0673: 1
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	Arg-1 to Cys-10, Asn-29 to Phe-38.		Lys-62 to Tyr-73.		Leu-36 to Ser-43, Gly-68 to Phe-73.	Lys-17 to Tyr-22.	•									
	4256	4257	4258	4259	4260	4261							4262			
	124 - 354	3 - 413	1 - 324	2 - 436	3 - 236	7 - 171							1 - 189			
	2081	2082	2083	2084	2085	2086					,		2087			
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	HVVAP65	HVVAS27	HVVAW26	HVVBD91	HVVBF09	HVVBF66							HVVBH88			

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L0755: 2, L0366: 2,	H0542: 2, H0556: 1,	S0040: 1, S0114: 1,	T0049: 1, S0212: 1,	H0638: 1, H0125: 1,	S0420: 1, S0354: 1,	S0376: 1, H0675: 1,	H0489: 1, S0468: 1,	S0132: 1, S0005: 1,	H0492: 1, T0109: 1,	S0346: 1, H0505: 1,	H0318: 1, H0581: 1,	H0196: 1, H0309: 1,	H0263: 1, H0545: 1,	H0050: 1, L0471: 1,	H0012: 1, H0620: 1,	H0014: 1, S0051: 1,	H0510: 1, H0266: 1,	H0188: 1, S0214: 1,	H0252: 1, H0039: 1,	H0622: 1, H0424: 1,	H0030: 1, H0553: 1,	H0644: 1, H0316: 1,	S0036: 1, H0634: 1,	H0087: 1, H0551: 1,	L0564: 1, T0041: 1,	T0042: 1, L0475: 1,	H0130: 1, S0144: 1,	S0142: 1, S0344: 1,	S0210: 1, L0638: 1,
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L0761: 1, L0803: 1, L0653: 1, L0661: 1,	L0527: 1, L0636: 1, L0783: 1, L0809: 1,	T0068: 1, L0438: 1,	S0126: 1, H0690: 1,	H0682: 1, H0435: 1,	H0658: 1, H0670: 1,	H0660: 1, H0672: 1,	H0651: 1, S0380: 1,	H0522: 1, S0044: 1,	H0478: 1, H0479: 1,	S0027: 1, L0742: 1,	L0748: 1, L0747: 1,	L0756: 1, L0757: 1,	L0758: 1, H0444: 1,	H0445: 1, L0597: 1,	L0581: 1, L0603: 1,	S0011: 1, S0194: 1,	S0196: 1, S0042: 1,	L0697: 1 and H0506: 1.									
																				Gln-5 to Pro-13,	Pro-25 to Lys-32,	Asp-62 to Ser-72,	Gln-78 to Ser-85,	Pro-91 to Glu-105.			
																			4263	4264					4265		4266
							-							-					2 - 592	150 - 578					3 - 413		1 - 633
		·																	2088	2089					2090		2091
																			HVVBI16R	HVVBJ08R					HVVBJ55RP	900	HVVBK13R
																			HVVBI16	HVVBJ08					HVVBJ55		HVVBK13

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										_										L0439: 23, L0438: 20,	L0665: 10,	0731: 8,	10069: 7,	.0666: 7,	,0747: 7,	10090: 6,	10519: 6,
		,								7,		 			0,					L0439: 23	H0556: 10, L0665: 10,	S0358: 9, L0731: 8,	H0423: 8, H0069: 7,	H0622: 7, L	L0748: 7, L	H0486: 6, E	L0664: 6, H0519: 6,
Pro-62 to Pro-73,	Thr-80 to Ser-92, Gln-108 to Tvr-116.		,		Asn-15 to Leu-27,	Lys-48 to Val-53.			Pro-1 to Phe-9,	Ser-111 to Asn-117,	Ser-159 to Pro-167	Ser-56 to Tyr-62,	Gln-67 to Pro-74,	Thr-83 to Gly-94,	Gln-120 to Gln-130,	Pro-150 to Ser-157		Lys-40 to Gly-47.		•							,
4267	1	4268	4269		4270		4271	4272	4273			4274					4275	4276	4277	4278							
3 - 644		50 - 433	2 - 406		116 - 316		454 - 2	3 - 161	2 - 580			1 - 792					299 - 427	224 - 481	2 - 640	447 - 695							
2092		2093	2094		2095		2096	2097	2098			2099					2100	<u> </u>	2102	2103							
HVVBO65 HVVBO65R		HVVBO88R	HVVBR70 HVVBR70RP	00B	HVVBT33R		HVVBT60 HVVBT60R	HVVBY87R	HVVCB04 HVVCB04R			HVVCB08R					HVVCC06R		HVVCD81R	HVVCD87 HVVCD87R							,
HVVBO65		HVVBO88	HVVBR70		HVVBT33		HVVBT60	HVVBY87	HVVCB04			HVVCB08					HVVCC06	HVVCD65	HVVCD81	HVVCD87	•						

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H0539: 6, L0749: 6,	J0596: 6, S0222: 5,	H0457: 5, H0435: 5,	56: 5, L0758: 5,	JO601: 5, H0013: 4,	H0046: 4, H0150: 4,	H0266: 4, H0038: 4,	71: 4, L0662: 4,	59: 4, L0663: 4,	570: 4, H0672: 4,	10521: 4, S0404: 4,	.0745: 4, H0265: 3,	S0114: 3, H0650: 3,	H0662: 3, S0360: 3,	45: 3, H0333: 3,	H0156: 3, H0318: 3,	H0050: 3, H0620: 3,	70010: 3, H0375: 3,	H0428: 3, H0039: 3,	H0591: 3, H0040: 3,	63: 3, H0412: 3,	H0100: 3, H0529: 3,	.0770: 3, L0775: 3,	09: 3, H0547: 3,	S0126: 3, H0436: 3,	41: 3, L0752: 3,	S0026: 3, H0624: 2,	H0713: 2, H0583: 2,	S0116: 2, H0663: 2,	H0305: 2, H0638: 2,
50H	105	H04	107	907	00H	H02	107	106	90H	H05	<u>1707</u>	S01	90H	00S	H01	00H	T00	H04	H05	00H	H01	L07	F08	SOL	107	2003	H07	S01	H03
																					W-8-1-10-1-10-1-1								
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S0418: 2, S0442: 2, H0580: 2, S0007: 2	H0619: 2, L0717: 2,	H0261: 2, H0392: 2,	H0586: 2, H0587: 2,	H0635: 2, H0271: 2,	H0687: 2, H0553: 2,	0456: 2, H0616: 2	H0413: 2, H0560: 2,	.0764: 2, L0773: 2,	.0521: 2, L0774: 2	L0378: 2, L0806: 2,	.0493: 2, L0517: 2	.0647: 2, H0690: 2,	H0659: 2, H0658: 2,	.0740: 2, L0757: 2,	JO588: 2, H0542: 2,	H0422: 2, L0600: 2,	H0171: 1, S0218: 1	H0657: 1, H0656: 1,	H0341: 1, S0298: 1,	S0212: 1, S0110: 1,	S0001: 1, S0030: 1,	H0661: 1, S0420: 1	S0356: 1, S0376: 1,	S0444: 1, S0046: 1,	S0476: 1, H0550: 1	H0441: 1, H0438: 1	H0492: 1, H0485: 1,	H0427: 1, S0280: 1
)SC	H	H	H	H	Ħ	<u> </u>	H	<u> </u>	77	<u>71</u>	<u>7</u>	<u> </u>	H	<u> </u>	<u>ੜ</u>	H	<u>H</u>	H	H	)S	)S	H	SC	OS	SC	ĬĦ	H	H
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S0010: 1, S0665: 1, H0581: 1, S0049: 1	1, H0251: 1,	1, H0263: 1,	1, H0041: 1,	H0563: 1, H0081: 1,	1, H0023: 1,	H0051: 1, S0051: 1,	H0356: 1, H0267: 1,	1, S0250: 1,	H0252: 1, H0615: 1,	F0023: 1, T0006: 1,	H0031: 1, H0644: 1,	,0055: 1, H0673: 1,	S0364: 1, L0455: 1,	H0068: 1, H0400: 1,	S0036: 1, H0087: 1,	H0551: 1, H0102: 1,	1, H0625: 1,	1, S0344: 1,	l, S0426: 1,	L0369: 1, L0769: 1,	.5575: 1, L0772: 1,	1, L0372: 1,	.0363: 1, L0767: 1,	.0649: 1, L0560: 1,	l, L0375: 1,	.0661: 1, L0807: 1,	l, L0519: 1,	ı, S0428: 1,
S0010: 1 H0581: 1	H0052:	H0309: 1	H0597: 1	H0563:	H0012:	H0051:	H0356:	H0179:	H0252:	T0023: 1	H0031:	L0055: 1	S0364: 1	H0068:	S0036: 1	H0551:	T0041:	H0641:	S0002: 1	L0369: 1	L.5575: 1	L0373: 1	L0363: 1	L0649: 1	L0650: 1	L0661: 1	L0384: 1	L0792: 1
																		<b></b>		1475-144-14 <b>3</b> 1					· · · · · · · · · · · · · · · · · · ·	******	į į	
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H0144: 1, L0352: 1, H0520: 1, H0682: 1, H0660: 1, H0651: 1, H0710: 1, H0518: 1, S0152: 1, H0579: 1, H0696: 1, S0146: 1, H0676: 1, E0037: 1, S3012: 1, S0037: 1, L0754: 1, L0751: 1, L0777: 1, L0780: 1, L0777: 1, L0780: 1, L0753: 1, L0759: 1, L0687: 1, L0599: 1, L0687: 1, L0599: 1, H0136: 1, S0242: 1, S0194: 1, S0276: 1, H0543: 1, S0424: 1 and S0452: 1.					H0135: 2, S0046: 1, S0222: 1, H0052: 1,	H0672: 1, S0328: 1 and H0214: 1		
								Gly-16 to Lys-22, Trp-82 to Lys-87.
	4279	4280	4281	4282	4283		4284	4285
	47 - 754	338 - 778	2 - 214	3 - 497	1 - 441		2 - 415	3 - 350
	2104		2106	2107	2108		2109	
	HVVCD90 HVVCD90R	HVVCE63R	HVVCE65 HVVCE65R	HVVCF38R	HVVCG29 HVVCG29R		HVVCG31 HVVCG31R	HVVCG46 HVVCG46R
	HVVCD90	HVVCE63	HVVCE65	HVVCF38	HVVCG29		HVVCG31	HVVCG46

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AR089: 107, AR096: 52, AR104: 30, AR060: 27, AR061: 14, AR055: 13		·					H0585: 4, H0457: 4,	.0809: 4, L0747: 4,	)442: 3, H0492: 3,	H0427: 3, H0318: 3,	.0666: 3, H0690: 3,	H0686: 2, H0662: 2,	S0358: 2, S0408: 2,	H0150: 2, H0135: 2,	H0063: 2, H0494: 2,	3761: 2, L0764: 2,	3773: 2, L0662: 2,	L0378: 2, L0665: 2,	0670: 2, S0406: 2,	L0744: 2, L0749: 2,	.0601: 2, H0170: 1,
Arg-48 to Asn-57, AR089: 107, AR096: Lys-77 to Glu-83, 52, AR104: 30, AR060: Phe-106 to Asp-112.27, AR061: 14, AR055: 13	Glu-81 to Gly-91, Arg-107 to Asn-116.	Asp-10 to Lys-15, Lys-29 to Asp-34.		Asp-1 to Thr-14,	Asp-101 to Lys-115,	Ala-128 to Gln-136, Pro-141 to Gln-151.	┢	<u> 1</u>	<u>S</u>	<u> </u>	<u> </u>	正	<u>S(</u>		耳	<u> </u>	<u> </u>	<u> 1</u>	H	<u> </u>	Ĭ
4286	4287	4288	4289	4290			4291			*****							*				
1 - 405	3 - 350	3 - 119	44 - 460	3 - 647			1 - 351								,	•		-			
2111	2112	2113	2114	2115			2116														
HVVCG93 HVVCG93R	HVVCH28 HVVCH28R	HVVCI28R	HVVCI50R	HVVCI85R		,	HVVCJ51R														
HVVCG93	HVVCH28	HVVCI28	HVVCI50	HVVCI85			HVVCJ51														

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	ì	HO.		
	.0750: 1, L0759: 1,			
	H0345: 1, L0439: 1,	OH		
	H0696: 1, H0478: 1,	0H		
	H0672: 1, S0380: 1,	)OH	-	
	.0664: 1, H0520: 1,	<u> </u>		
	.0793: 1, L0532: 1,	<u> </u>		
	.0775: 1, L0659: 1,	<u> </u>		
	C0766: 1, L0774: 1,	<u> </u>		
	.0645: 1, L0794: 1,	<u> </u>		
	C0800: 1, L0641: 1,	<u>~</u>		
		<u> </u>		
	20630: 1, L0772: 1,			
	L0640: 1, L0639: 1,	<u> </u>	-	
	S0440: 1, H0646: 1,	804		
	H0059: 1, S0352: 1,	)0H		
	16: 1, H0264: 1,	OH	-	
	S0036: 1, H0551: 1,	008		
	266: 1, H0553: 1,	H10.		
	H0545: 1, H0373: 1,	HO		
	253: 1, H0231: 1,	HIO.	-	
•	S0280: 1, H0599: 1,	20S		
	H0642: 1, L0622: 1,	OH	•	
ř		)OH		
	S0360: 1, S0278: 1,	803		
	80354: 1, 80376: 1,	S03		
	H0402: 1, S0348: 1,	OH		
	H0685: 1, H0661: 1,	0Н		

L0751: 3, L0757: 3, L0662: 2, H0686: 1, H0266: 1, L0055: 1, L0763: 1, L0764: 1, L0768: 1, L0805: 1, L0653: 1, L0666: 1, H0690: 1, H0672: 1, L0777: 1, L0758: 1 and S0276: 1.													H0521: 182, H0522:	34, S0002: 30, S0278:	41, 110000. ±3, 000 : 1:
		Pro-11 to Lys-31, Ser-36 to Gln-44, Thr-53 to Gly-58, Ala-74 to Arg-87,	Pro-105 to His-113.	Gly-8 to Lys-22,	Val-95 to Cys-100,	Thr-147 to Gln-161,	Gln-164 to Lys-170, Gln-179 to 1 en-185	Pro-194 to Gly-199.	Trp-36 to Thr-43,	Gly-51 to Thr-70,	1 yr-6/ to Giu-9/.				
4292	4293	4294		4295					4296		4297	4298	4299	•	
1 - 147	3 - 320	1 - 339		2 - 775					3 - 293		3 - 347	35 - 466	96 - 332		
2117	2118	2119		2120					2121		2122	2123	2124		
HVVCK59 HVVCK59R	HVVCK78R	HVVCL52R		HVVCL73R					HVVCM67 HVVCM67R		HVVCM84R	HVVCN20R	HVVCN29R		
HVVCK59	HVVCK78	HVVCL52		HVVCL73					HVVCM67		HVVCM84	HVVCN20	HVVCN29		

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13, S0144: 11, S0142: 9,	H0580: 8, L0740: 6,	747: 6, H0445: 6,	0090: 5, L0756: 5,	L0777: 5, S0360: 4,	H0591: 4, S0426: 4,	7771: 4, L0766: 4,	.0776: 4, L0754: 4,	S0194: 4, H0341: 3,	376: 3, H0393: 3,	H0575: 3, H0538: 3,	H0144: 3, H0716: 2,	S0212: 2, H0637: 2,	H0331: 2, H0632: 2,	H0486: 2, H0590: 2,	H0046: 2, H0051: 2,	S0440: 2, H0509: 2,	.0783: 2, L0663: 2,	H0555: 2, L0748: 2,	.0439: 2, L0745: 2,	.0758: 2, L0362: 2,	H0170: 1, H0685: 1,	T0049: 1, H0177: 1,	)442: 1, S0408: 1,	S0132: 1, S0476: 1,	S0300: 1, S6022: 1,	H0392: 1, H0537: 1,	H0438: 1, H0587: 1,	H0497: 1, H0270: 1,	C0060: 1, H0013: 1,
13	H	<u> </u>	H	<u> </u>	<u>H</u>	<u>71</u>	<u>71</u>	OS SC	OS SC	)H	H	)S	H	H	H	SC	<u>)                                    </u>	H	<u> </u>	ĭ	H	TC	SC	SC	SC	<u>H</u>	H	)H	TC
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H0427: 1, L0021: 1, H0581: 1, H0374: 1, H0597: 1, H0544: 1, H0546: 1, H0569: 1, H0123: 1, L0471: 1, H0012: 1, S0388: 1	H0275: 1, H0375: 1, H0286: 1, S0003: 1, L0194: 1, T0006: 1, H0644: 1, H0032: 1, H0674: 1, H0361: 1,	S0036: 1, H0038: 1, H0040: 1, H0551: 1, H0413: 1, L0475: 1, H0561: 1, S0438: 1, H0131: 1, H0641: 1,	L0369: 1, L0762: 1, L0637: 1, L0800: 1, L0662: 1, L0649: 1, L0388: 1, L0774: 1,	L0653: 1, L0809: 1, L0789: 1, L0666: 1, L0665: 1, S0374: 1, S0126: 1, H0435: 1, H0659: 1, H0672: 1,	S0378: 1, H0518: 1, S0392: 1, S3014: 1, L0751: 1, L0779: 1, L0780: 1, L0731: 1,
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260: 1,	026: 1,	)412: 1 and		3.51															nd L0518:						L0659: 55, H0644: 23,	.0666: 17,	10622: 16,	10553: 15,
L0759: 1, S0260: 1,	L0599: 1, S0026: 1	H0423: 1, S0412: 1 and	H0506: 1.					•										F.	H0672: 2 and L0518:	I.					L0659: 55,	L0748: 18, L0666: 17,	L0747: 17, H0622: 16,	S0194: 16, H0553: 15,
						Gln-61 to Pro-68,	Gln-103 to Ala-108,	Tyr-111 to Thr-117	Val-28 to Ser-33.	Lys-54 to Ala-67,	Arg-77 to Thr-86.		Ala-35 to Ala-41,	Pro-46 to Gly-54,	Pro-67 to Gly-87.	Ser-23 to Lys-30.	Glu-74 to Arg-79,	Glu-117 to Arg-134	Arg-30 to Phe-36.				Arg-11 to Pro-17,	Ser-33 to Lys-46.	His-1 to Asn-8,	Arg-10 to Gly-16,	Tyr-50 to Gly-56.	
				4300	4301	4302			4303	4304		4305	4306			4307	4308		4309		4310	4311	4312		4313			
				2 - 460	3 - 212	2 - 352			170 - 334	3 - 404		2 - 442	3 - 449			11 - 184	3 - 605		10 - 144		1 - 630	105 - 335	35 - 217		237 - 698			-
				2125	2126	2127			2128	2129		2130	2131			2132	2133		2134		2135	2136	2137		2138			
				HVVCN54R	HVVCN66R	HVVC013 HVVC013R			HVVC016R	HVVCO87R		HVVCP41R	HVVCP88R		·	HVVCQ05R	HVVCQ49 HVVCQ49R		HVVCQ70 HVVCQ70R		HVVCQ93R	HVVCS28R	HVVCS32R		HVVCT54R			
				HVVCN54	HVVCN66	HVVC013			HVVC016	HVVCO87		HVVCP41	HVVCP88			HVVCQ05	HVVCQ49	•	HVVCQ70		HVVCQ93	HVVCS28	HVVCS32		HVVCT54			

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.0662: 15, S0126: 15, 0740: 15, 1 0754: 14	H0031: 13, H0593: 12,	.0649: 11, H0435: 11,	J0757: 11, H0124: 10,	30250: 9, S0356: 8,	H0672: 7, L0362: 7,	J0779: 6, S0210: 5,	J0771: 5, L0663: 5,	.0664: 5, H0547: 5,	J0750: 5, L0601: 5,	30360: 4, H0619: 4,	.0764: 4, L0804: 4,	J0775: 4, S0358: 3,	10486: 3, H0628: 3,	10264: 3, L0451: 3,	L0776: 3, L0655: 3,	.0783: 3, H0693: 3,	10660: 3, S0454: 3,	.0749: 3, L0605: 3,	S0192: 3, H0170: 2,	10294: 2, S0180: 2,	H0586: 2, H0013: 2,	H0687: 2, H0428: 2,	.0483: 2, H0488: 2,	S0450: 2, H0647: 2,	30208: 2, L0648: 2,	.0523: 2, L0809: 2,	.0665: 2, H0144: 2,	.0565: 2, H0690: 2,
	<u>                                    </u>	<u>. II</u>		<u>03</u>	<u> </u>	<u>T</u>	<u> </u>	1	<u>, —</u>	<u> </u>	<u>I</u> .	I	<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>		1	<u>. +</u>	<u>I</u>		<u>. <del></del> -</u>		<u>-</u>		<u> </u>	<u> </u>			1
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H0518. 2, H0696. 2, S3012. 2, L0752. 2, L0755. 2, L0751. 1, H0665. 1, S0212. 1, S0376. 1, S0410. 1, S0132. 1, H0392. 1, L0717. 1, H0392. 1, L0717. 1, H0392. 1, L0717. 1, H0392. 1, L0021. 1, H0695. 1, L0021. 1, H0695. 1, H0035. 1, H0035. 1, L00471. 1, H0046. 1, H0035. 1, L0772. 1, L0765. 1, L0769. 1, L0767. 1, L0388. 1, L0647. 1, L0383. 1, L0648. 1, L04483. 1, L044833. 1						
830 100 100 100 100 100 100 100 1	518: 2, H0696: 2, 112: 2, L0752: 2, 555: 2, L0731: 2, 565: 2, H0171: 1,	556: 1, S0212: 1, 776: 1, S0410: 1, 32: 1, H0393: 1, 717: 1, H0392: 1,	)40: 1, T0060: 1, )21: 1, H0599: 1, )82: 1, H0618: 1, )552: 1, H0085: 1,	110: 1, H0046: 1, 550: 1, L0471: 1, 355: 1, S0003: 1, 515: 1, H0039: 1, [43: 1, H0111: 1,	455: 1, S0366: 1, 135: 1, H0040: 1, 551: 1, H0100: 1, 564: 1, H0509: 1, 517: 1, L0763: 1,	769: 1, L0772: 1, 546: 1, L0768: 1, 575: 1, L0784: 1, 806: 1, L0805: 1, 553: 1, L0654: 1, 517: 1, L0384: 1, 833: 1, L0647: 1,
	H05 S30 L07 H06	H06 S03 S01 L07 H03	1700 1700 1700 1700	101 H00 H03 H06	104 H01 H05 H05 H05	107 108 108 108 108 109 109
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L0789: 1, L0791: 1, L0438: 1, H0520: 1, H0689: 1, H0682: 1, H0704: 1, S0152: 1, S0432: 1, S3014: 1, S0027: 1, S0028: 1, L0744: 1, L0758: 1, H0595: 1, H0707: 1, S0436: 1, L0591: 1, L0599: 1, S0196: 1, H0422: 1, S0384: 1 and L0600: 1.		L0748: 18, L0794: 7, L0438: 7, L0777: 7, L0809: 6, L0439: 6, L0756: 6, L0750: 5, L0717: 3, L0770: 3, L0776: 3, L0664: 3, L0776: 3, L0664: 3, L0776: 2, H0013: 2, H0596: 2, H0040: 2, L0769: 2, L0768: 2, L0769: 2, L0768: 2, L0769: 2, L0768: 2, L0731: 2, L0758: 2, L0591: 2, L0599: 2, H0624: 1, S0342: 1, H0638: 1, S0376: 1,
		lie-1 to Ser-6, Lys-13 to His-25.
	4314	4315
	2139   340 - 522	2140 365 - 529
		HVVCU14 HVVCU14R 2
	HVVCT62	HVVCU14

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H0574: 1, H0635: 1, S0049: 1, H0052: 1, T0010: 1, H0288: 1, H0286: 1, H0553: 1, L0455: 1, L0455: 1, L0758: 1, L0638: 1, L0775: 1, L0659: 1, L0663: 1, L0665: 1, H0690: 1, L0665: 1, H0690: 1, S0152: 1, L0740: 1, L0753: 1 and S0424: 1	L0747: 16, L0750: 15, L0752: 15, L0769: 9, L0757: 9, L0005: 8, L0775: 8, L0740: 8, L0774: 6, L0471: 5, H0087: 5, L0772: 4, L0731: 4, L0588: 4, H0657: 3, H0341: 3, H0657: 3, H0599: 3, S0049: 3, H0670: 3, L0776: 3, L0783: 3, S0074: 3, H0660: 3, H0672: 3, L0783: 3, S0222: 2, H0352: 3, S0222: 2, H0352: 3, S0222: 2, H0352: 3, L0755: 3, H0352: 3, L0749: 3, L0755: 3, H0352: 3, L0749: 2, H0251: 2, H0341: 2, H0251: 2,
	Gln-8 to Lys-13, Glu-32 to Arg-56, Ser-60 to Thr-69.
	4316
	23 - 307
	2141
	HVVCU50R
	HVVCU50

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H0309: 2, H0620: 2, H0266: 2, T0067: 2,	10494: 2, L0761: 2,	L0651: 2, L0518: 2, S0126: 2, H0670: 2,	S0328: 2, H0521: 2,	33012: 2, S0206: 2,	.0745: 2, L0753: 2,	.0759: 2, L0596: 2,	.0608: 2, H0423: 2,	H0395: 1, T0002: 1,	H0685: 1, S0218: 1,	50116: 1, S0110: 1,	H0484: 1, H0661: 1,	H0663: 1, H0306: 1,	H0402: 1, S0356: 1,	30442: 1, S0358: 1,	S0360: 1, H0208: 1,	S0045: 1, H0393: 1,	H0351: 1, H0392: 1,	H0333: 1, H0574: 1,	L0623: 1, T0039: 1,	F0040: 1, L0586: 1,	H0250: 1, H0156: 1,	H0575: 1, S0346: 1,	H0318: 1, H0581: 1,	H0421: 1, H0597: 1,	H0546: 1, H0545: 1,	H0046: 1, H0041: 1,	H0081: 1, H0012: 1,
<u> </u>	<u>H</u> ,	<u>1                                    </u>	S	S	<u>.                                    </u>			<u> </u>	<u>H</u>	S	<u> </u>	<u> </u>	<u> </u>	S	S	S	<u>田</u>	<u>ш</u>		L	<u> </u>	<u> </u>	H	<u> </u>	<u> </u>	<u> </u>	
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H0023: 1, S0388: 1, H0275: 1, H0356: 1,	S0023: 1, H0594: 1,	H0188: 1, H0428: 1,	H0555: 1, H06/4: 1, S0036: 1. H0135: 1.	H0063: 1, H0413: 1,	H0056: 1, T0004: 1,	H0100: 1, T0042: 1,	H0334: 1, H0641: 1,	H0647: 1, S0144: 1,	S0344: 1, L0763: 1,	L0371: 1, L0637: 1,	L0764: 1, L0768: 1,	L0364: 1, L0376: 1,	L0524: 1, L0632: 1,	L0655: 1, L0659: 1,	L0782: 1, L0809: 1,	L0666: 1, L0663: 1,	H0144: 1, L0565: 1,	H0691: 1, H0547: 1,	H0593: 1, H0690: 1,	H0684: 1, H0579: 1,	S0044: 1, H0631: 1,	S0028: 1, L0742: 1,	L0748: 1, L0746: 1,	S0031: 1, S0434: 1,	H0667: 1, S0192: 1,	S0276: 1, H0542: 1,	H0422: 1, H0506: 1 and
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L0600: 1.				L0794: 5, H0617: 4,	H0486: 3, L0800: 3,	L0764: 3, H0672: 3,	L0751: 3, S0360: 2,	H0188: 2, S0022: 2,	L0769: 2, L0803: 2,	L0809: 2, L0665: 2,	L0361: 2, H0556: 1,	H0583: 1, H0657: 1,	S0418: 1, L0005: 1,	S0354: 1, S0408: 1,	S0045: 1, S0046: 1,	S6014: 1, H0587: 1,	H0333: 1, H0559: 1,	H0596: 1, H0673: 1,	H0616: 1, H0494: 1,	L0761: 1, L0662: 1,	L0651: 1, L0659: 1,	L0382: 1, L5622: 1,	L0663: 1, H0690: 1,	H0670: 1, S0152: 1,	S0390: 1, L0747: 1,	L0777: 1, L0731: 1,	L0758: 1, S0436: 1,
	Glu-1 to Gln-10, Val-74 to Arg-83.	Pro-12 to Ser-18, Pro-25 to Pro-30,	Ala-62 to Ser-70.	Met-22 to Asp-27,	Cys-43 to Trp-50,	Asp-79 to Trp-93,	6																				
	4317	4318		4319																							
	2 - 310	2 - 244		3 - 410																							
	2142	2143	·	2144																							
	HVVCV41R	HVVCV68R		HVVCW75R																							`
	HVVCV41	HVVCV68		HVVCW75																							

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L0592: 1, L0601: 1 and S0424: 1.	H0052: 15, H0585: 12,	.0740: 12, L0439: 11,	.0758: 10, L0754: 9,	36: 8, L0748: 8,	H0141: 7, L0666: 7,	21: 7, L0742: 7,	.0749: 7, H0556: 6,	S0222: 6, H0494: 6,	13: 6, L0751: 6,	.0757: 6, H0253: 5,	F0010: 5, L0803: 5,	.0731: 5, H0657: 4,	S0360: 4, S0408: 4,	l6: 4, S0278: 4,	H0618: 4, S0049: 4,	H0617: 4, H0623: 4,	S0038: 4, L0764: 4,	.0766: 4, L0805: 4,	.0809: 4, L0744: 4,	.0746: 4, S0040: 3,	S0212: 3, L0005: 3,	H0441: 3, H0333: 3,	13: 3, H0599: 3,	H0009: 3, H0242: 3,	H0644: 3, H0038: 3,	H0551: 3, H0412: 3,	
L05 S04	Asp-1 to Pro-10. HC	L07	100	L52	H01	H05	L07	S02	100	101	T00	L07	S03	00S	90H	90H	00S	<u> 100</u>	80T	L07	S02	H04	)0H	)0H	90H	50H	
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.0776: 3, L0792: 3, 0663: 3, 1,0438: 3	S0044: 3, S0406: 3,	S0028: 3, L0745: 3,	3779: 3, L0752: 3	.0362: 3, S6024: 2,	H0733: 2, S0132: 2,	H0261: 2, H0455: 2,	10438: 2, H0497: 2,	H0041: 2, L0471: 2,	10620: 2, H0024: 2,	H0051: 2, H0266: 2,	H0284: 2, S0250: 2,	F0006: 2, S0366: 2,	S0036: 2, H0591: 2,	S0344: 2, L0369: 2	.5623: 2, L0791: 2,	L0665: 2, S0374: 2,	0520: 2, S0126: 2	H0672: 2, H0436: 2,	.0741: 2, L0747: 2,	.0750: 2, L0756: 2,	.0759: 2, S0436: 2,	.0591: 2, L0592: 2,	.0485: 2, L0608: 2,	.0593: 2, L0595: 2,	H0667: 2, H0423: 2,	.0718: 2, H0149: 1,	H0265: 1, H0139: 1,	H0716: 1, S0114: 1,
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H0674: 1, H0135: 1, H0040: 1, H0616: 1, H0087: 1, H0264: 1, H0048: 1, H0268: 1, H0059: 1, H0100: 1, L0351: 1, H0334: 1, H0633: 1, S0142: 1, L0640: 1, L0637: 1, L0648: 1, L0794: 1, L0659: 1, L0657: 1, L0659: 1, L0657: 1, L0659: 1, L0657: 1, H0659: 1, L0542: 1, L0783: 1, L0382: 1, L0783: 1, L0382: 1, H0690: 1, H0435: 1, H0690: 1, H0539: 1, S0454: 1, S0404: 1, H0445: 1, H0595: 1, H0445: 1, H0595: 1, H0445: 1, H0542: 1, H0543: 1, H0542: 1, H0543: 1, H0542: 1, H0543: 1, H0542: 1,	
	Arg-9 to Ile-31, Gln-38 to Lys-43, Gln-87 to Ala-92,
	4321
	35 - 418
	2146
	HVVCX46 HVVCX46R
	HVVCX46

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Ser-116 to Pro-128.	Ser-8 to Ser-14,	Asn-68 to Tyr-74,	His-80 to Val-91,	Glu-141 to Phe-147,	Ala-159 to Ser-170,	Asp-184 to Gly-199.	Pro-60 to Gly-72,	Gln-89 to Ser-94,	Pro-121 to Pro-132,	Pro-146 to Pro-166.	Lys-30 to Glu-36,	Lys-55 to Tyr-68,	Ile-82 to Asp-87,	Trp-115 to Ser-125,	Pro-139 to Pro-146.	Ala-17 to Lys-23,	Leu-25 to Ala-35,	Gln-71 to Ala-76,	Tyr-79 to His-85,	Pro-112 to Gly-120,	Gly-149 to Tyr-165,	Lys-175 to His-181.		Glu-179 to Ala-184.				
	4322						4323				4324					4325							4326	4327	4328	4329		
	2 - 775						2 - 697				1 - 588					3 - 620							139 - 276	2 - 598	423 - 542	139 - 291		
	2147						2148				2149					2150							2151	2152	2153	2154		
	HVVCY29R						HVVCY55R			_	HVVCY60 HVVCY60R					HVVCY62R							HVVCY75R	HVVCY77 HVVCY77R	HVVCZ18R	HVVCZ50 HVVCZ50R		
	HVVCY29						HVVCY55				HVVCY60					HVVCY62							HVVCY75	HVVCY77	HVVCZ18			

S0212: 5, S0045: 5,	H0411: 5, H0486: 4,	S0003: 4, S0210: 4,	H0672: 4, L0731: 4,	S0192: 4, S0418: 3,	S0046: 3, H0169: 3,	L0649: 3, S0040: 2,	H0671: 2, H0662: 2,	S0358: 2, S0376: 2,	S0132: 2, H0635: 2,	H0098: 2, H0544: 2,	H0546: 2, H0545: 2,	H0242: 2, H0015: 2,	S0250: 2, H0551: 2,	H0268: 2, H0494: 2,	L0659: 2, L0517: 2,	L0809: 2, H0689: 2,	S0028: 2, H0506: 2,	H0170: 1, H0171: 1,	H0295: 1, H0661: 1,	H0639: 1, H0574: 1,	H0599: 1, L0022: 1,	H0108: 1, H0042: 1,	H0004: 1, H0044: 1,	H0355: 1, H0510: 1,	H0266: 1, S0318: 1,	S0316: 1, S0022: 1,	H0328: 1, H0039: 1,	H0622: 1, H0634: 1,	H0488: 1, H0623: 1,
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L0564: 1, H0509: 1, L0764: 1, L0662: 1, L0653: 1, H0144: 1, S0374: 1, L0565: 1, H0670: 1, S0380: 1, H0518: 1, H0555: 1, L0748: 1, L0740: 1, L0751: 1, L0754: 1, L0749: 1, L0777: 1, L0749: 1, L0777: 1,	L0777: 17, L0439: 13, L0731: 9, H0521: 8, S0003: 5, H0547: 5, L0759: 5, L0803: 4, L0748: 4, L0750: 4, L0752: 4, L0351: 3, H0560: 3, L0751: 3, H0549: 3, L0757: 3, H0543: 3, S0134: 2, L0415: 2, S0116: 2, S0358: 2, S0376: 2, H0318: 2, H0581: 2, H0421: 2, H0581: 2, H0662: 2, L0768: 2, L0766: 2, S0328: 2, H0215: 2, S0406: 2, L0744: 2, L0608: 2, S0192: 2, H0170: 1,
	4330
·	161 - 313
	2155
	HVVDC09R
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H0222: 1, H0713: 1 L0420: 1, H0661: 1	H0663: 1, S0360: 1	S0410: 1, H0580: 1,	0007: 1, H0619:	10351: 1, S6022: 1	H0587: 1, H0013: 1	10427: 1, H0097:	H0052: 1, T0110: 1,	10231: 1, L0471:	H0266: 1, H0687: 1,	0250: 1, S0214: 1	I0428: 1, T0023:	H0628: 1, H0551: 1,	H0412: 1, H0494: 1	10366: 1, S0352:	S0440: 1, H0633: 1,	H0646: 1, H0538: 1	0422: 1, S0426: 1	.0369: 1, L.0500: 1	L0770: 1, L0637: 1,	,0642: 1, L0764: 1	J0381: 1, L0774: 1	.0775: 1, L0375: 1	.0806: 1, L0805: 1	.0654: 1, L0659: 1,	.0783: 1, L0666: 1	,0664: 1, L0665: 1	S0374: 1, S0148: 1,	H0520: 1, H0519: 1
	Ш_	<u>S</u>	S	<u>II</u>	<u>记</u>	<u>诺</u>		<u>近</u>	<u> </u>	<u>N</u>	<u> </u>	<u> </u>	<u>;</u>	<u>. E</u>	S		S	<u> </u>		<u> </u>	<u> </u>	<u> </u>		<u>.</u>			S	<b>T</b>
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H0593: 1, S0126: 1, H0660: 1, H0648: 1, H0672: 1, S0330: 1, H0539: 1, S0152: 1, S0037: 1, L0747: 1, L0605: 1, S0011: 1, H0423: 1, H0422: 1 and H0506: 1.				L0742: 10, H0144: 6,	H0265: 5, S0116: 4,	S0046: 4, S0222: 4,	H0556: 3, H0250: 3,	H0052: 3, S0027: 3,	L0595: 3, S0212: 2,	H0306: 2, S0358: 2,	H0013: 2, H0618: 2,	H0124: 2, H0100: 2,	S0053: 2, H0660: 2,	S0330: 2, S3012: 2,	L0748: 2, L0439: 2,	L0745: 2, L0757: 2,	H0445: 2, S0342: 1,	H0484: 1, H0638: 1,	S0007: 1, H0393: 1,	H0437: 1, H0549: 1,	H0438: 1, H0486: 1,	H0253: 1, H0390: 1,
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	4331	4332	4333	4334																		
	2 - 580	3 - 545	3 - 446	1 - 390																		
	2156	2157		2159																		
	HVVDH44 HVVDH44R	HVVDM23 HVVDM23R	HVVDM31 HVVDM31R	HVVDM45 HVVDM45R							-											
	HVVDH44	HVVDM23	HVVDM31	HVVDM45																		

H0544: 1, H0046: 1, H0009: 1, H0023: 1, N0007: 1, T0010: 1, H0188: 1, H0687: 1, S0003: 1, H0030: 1, S0364: 1, L0455: 1, H0038: 1, H0551: 1, H00412: 1, H0059: 1, S0002: 1, H0517: 1, L0643: 1, L0771: 1, L0775: 1, L0654: 1, L0775: 1, L0654: 1, H0659: 1, H0658: 1, H0659: 1, H0658: 1, H0672: 1, H0651: 1, H0672: 1, H0658: 1, H0672: 1, H0658: 1, H0676: 1, L0779: 1, H0576: 1, L0593: 1, S0026: 1, H0667: 1, S0026: 1, H0667: 1, S00276: 1, H0642: 1, H0542: 1, H0667: 1,		L0766: 9, L0665: 7, L0659: 6, L0761: 5,	LUUUL. T, LUI / U. T,
	4335	4336	
	2 - 241	204 - 524	
	2160	2161	
	HVVDM53R	HVVDM83 HVVDM83R	
	HVVDM53	HVVDM83	

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S0418: 3, S0007: 3, H0559: 3, H0457: 3,	H0617: 3, L0800: 3,	H0309: 2, L0769: 2,	L0667: 2, L0794: 2,	L0664: 2, L0756: 2, L0779: 2, L0777: 2,	L0758: 2, H0543: 2,	H0556: 1, S0402: 1,	S0114: 1, H0650: 1,	H0656: 1, S0116: 1,	H0484: 1, H0254: 1,	H0255: 1, S0420: 1,	S0354: 1, S0358: 1,	H0676: 1, L0717: 1,	S0222: 1, H0614: 1,	L0622: 1, H0486: 1,	H0069: 1, H0253: 1,	H0581: 1, H0024: 1,	H0051: 1, H0100: 1,	H0494: 1, H0625: 1,	H0561: 1, S0144: 1,	L0374: 1, L0771: 1,	L0773: 1, L0768: 1,	L0387: 1, L0774: 1,	L0653: 1, L0657: 1,	L0384: 1, L0789: 1,	L0790: 1, L0792: 1,	H0684: 1, H0659: 1,
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H0670: 1, H0672: 1, H0521: 1, S0027: 1, L0741: 1, L0754: 1, L0749: 1, L0780: 1, H0422: 1 and H0352: 1.					H0551: 9, L0662: 9,	.0471: 8, L0754: 7,	5: 6, L0666: 6,	S0358: 5, L0663: 5,	): 5, L0779: 5,	7: 4, H0373: 4,	L0770: 4, L0803: 4,	7: 4, L0752: 4,	7: 4, L0758: 4,	S0114: 3, S0212: 3,	3: 3, H0412: 3,	9: 3, L0805: 3,	L0776: 3, L0809: 3,	5: 3, L0740: 3,	5: 3, H0657: 2,	S0116: 2, S0356: 2,	S0360: 2, H0411: 2,	H0390: 2, H0318: 2,	S0214: 2, H0644: 2,	H0617: 2, H0494: 2,
H0670 H052 L0743 L0745 H0422	Asp-50 to Gly-55.		Lys-24 to Glu-34,	Pro-47 to Arg-56, Tyr-77 to Pro-90.		<u> </u>	Lys-83 to Lys-90. $L0766$		L075(	000S	)//07	L077	L075	S011 ²	7.290H	F0763	)//07	80120	H050	S0116	S0360	H039	S021	H061
	4337	4338	4339 I	<u> </u>	4340 I		<u> </u>					·						•						
	2 - 685	1 - 594	40 - 354		106 - 423																			
	2162	2163	2164		2165																			
	HVVDN29R		HVVDP70R		HVVDQ46R	)																		
	HVVDN29	HVVDN77	HVVDP70		HVVDQ46																			

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.0761: 2, L0773: 2, .0649: 2, L0774: 2,	.0653: 2, L0529: 2	H0455: 2, L0749: 2, L0731: 2, L0588: 2,	.0608: 2, S0026: 2	I0543: 2, H0294:	10650: 1, H0341:	0354: 1, S0376: 1	10580: 1, H0339:	10208: 1, S0132: 1	10640: 1, H0369:	10438: 1, H0574:	10486: 1, H0101:	I0427: 1, H0097:	H0575: 1, H0037:	10230: 1, H0052:	.0040: 1, H0544:	H0545: 1, H0086:	H0009: 1, S0024: 1,	I0510: 1, S0250: 1	I0428: 1, H0166:	H0102: 1, H0560:	.0294: 1, H0509: 1	0150: 1, H0633: 1	10647: 1, L0631:	.0646: 1, L0764: 1	.0804: 1, L0806: 1	L0606: 1, L0657: 1,	.0659: 1, L0636: 1
	₽.F	<u> </u>	<u> 1</u>	<u> </u>	<u>H</u>	S	<u> </u>	<u>#</u>	<u>H</u>	H	<u>E</u>	<u>II</u>	<u> </u>	<u>H</u>	<u> </u>	<u> </u>	<u>II</u>	<u>æ</u>	<u> </u>	<u>H</u>	S	S	<u> </u>	1	<u>1</u>	<u>-1</u>	
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L0783: 1, L0382: 1, L0789: 1, L0664: 1, L0665: 1, H0593: 1, H0690: 1, H0682: 1, H0684: 1, H0648: 1, H0672: 1, H0539: 1, H0521: 1, H0555: 1, H0478: 1, L0609: 1, L0744: 1, L0748: 1, L0747: 1, L0755: 1, H0445: 1, H0343: 1, L0581: 1, H0653: 1 and	H0521: 7, H0052: 6, H0622: 5, L0646: 5, H0617: 4, L0662: 4, L0659: 4, H0556: 3, H0341: 3, H0484: 3, S0358: 3, H0580: 3, H0551: 3, L0664: 3, H0670: 3, S0328: 3, H0645: 3, L0603: 3, H0583: 2, S0007: 2, S0376: 2, S0007: 2, S0132: 2, H0438: 2, H0586: 2, H0486: 2, H0618: 2, S0474: 2, S0049: 2, H0545: 2,
	4341
	2 - 103
	2166
	HVVDQ49R
	HVVDQ49

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H0268: 2. H0494: 2.	H0509: 2, H0647: 2,	L5565: 2, L0645: 2,	.0764: 2, L0666: 2,	.0665: 2, H0520: 2,	H0689: 2, H0658: 2,	S0152: 2, S0406: 2,	S3014: 2, L0439: 2,	.0751: 2, L0754: 2,	_0750: 2, L0758: 2,	S0434: 2, L0596: 2,	L0581: 2, L0595: 2,	_0601: 2, S6024: 1,	H0294: 1, H0657: 1,	H0656: 1, L0415: 1,	H0669: 1, H0671: 1,	S0356: 1, S0354: 1,	S0360: 1, S0410: 1,	H0340: 1, S0476: 1,	S0278: 1, H0549: 1,	H0550: 1, H0370: 1,	HO587: 1, HO497: 1,	H0643: 1, H0257: 1,	H0318: 1, H0457: 1,	HO041: 1, H0123: 1,	H0024: 1, H0071: 1,	H0375: 1, H0290: 1,	H0292: 1, H0428: 1,	C0142: 1, S0036: 1,	H0063: 1, H0087: 1,
	<u> </u>		<u></u>			<u></u>	<u>S</u>			<u></u>	<u></u>	<u>T</u>		<u></u>			<u></u>	<u></u>	<u></u>	<u> </u>	<u> </u>	<u></u>	<u> </u>	<u> </u>		<u> </u>	<u>, 11</u>		I
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H0264: 1, H0059: 1, H0100: 1, S0448: 1, S0450: 1, S0440: 1, H0646: 1, S0144: 1, S0002: 1, L0762: 1, L0640: 1, L0639: 1, L0643: 1, L0771: 1, L0773: 1, L0648: 1, L0775: 1, L0774: 1, L0376: 1, L0378: 1, L0376: 1, L0774: 1, H0776: 1, L0778: 1, H0693: 1, H0437: 1, H0693: 1, H0435: 1, H0693: 1, H0435: 1, H0693: 1, H0435: 1, H0693: 1, L0791: 1, H0693: 1, L0791: 1, H0693: 1, L0791: 1, H0519: 1, H0478: 1, S0230: 1, L0743: 1, L0745: 1, L0743: 1, L0749: 1, L0731: 1, S0436: 1, L0731: 1, S0436: 1, L0593: 1,	H0423: 1 and H0352: 1.	AR104: 17, AR089: 10, AR096: 10, AR061: 8, AR060: 4, AR055:
	4342	4343
	1 - 732	2 - 730
	2167	2168
	HVVDS12R	HVVDS21R
	HVVDS12	HVVDS21

4	S0412: 22, L0662: 19, L0777: 14, S0010: 11, S0222: 9, S6028: 9, L0750: 9, T0010: 8, L0659: 8, L0747: 8, L0756: 8, L0663: 7, L0439: 7, H0051: 6, L0752: 6, S0280: 5, H0575: 5, S0358: 4, S0346: 4, L0753: 4, H0170: 3, H0662: 3,	S0360: 3, H0427: 3, L0471: 3, H0373: 3, L0638: 3, L0637: 3, L0764: 3, L0774: 3, L0809: 3, L0666: 3, S0310: 3, H0672: 3, H0696: 3, L0731: 3, H0506: 3, H0713: 2, S0408: 2, H0411: 2, H0455: 2, H0574: 2, S0414: 2, H0486: 2, H0036: 2, H0428: 2, H0052: 2, H0428: 2, H0053: 2, H0644: 2, H0687: 2, L0520: 2,
	4344	
	2 - 640	
	2169	·
	HVVDS35R	·
	HVVDS35	

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L0762: 2, L0770: 2, L0653: 2, L0517: 2,	S0044: 2, L0442: 1,	HU585: 1, LU445: 1, \$0110: 1, \$0282: 1,	S0400: 1, H0661: 1,	S0348: 1, S0356: 1,	S0444: 1, H0329: 1,	S0007: 1, H0619: 1,	S6026: 1, S0300: 1,	L0717: 1, S6022: 1,	H0550: 1, H0592: 1,	H0587: 1, H0599: 1,	H0042: 1, H0590: 1,	H0318: 1, H0309: 1,	H0545: 1, H0563: 1,	H0564: 1, H0123: 1,	H0019: 1, S0050: 1,	L0163: 1, S0388: 1,	H0356: 1, H0328: 1,	H0688: 1, H0039: 1,	T0023: 1, H0031: 1,	H0111: 1, H0169: 1,	S0364: 1, L0455: 1,	H0135: 1, H0163: 1,	T0067: 1, T0069: 1,	T0004: 1, H0100: 1,	S0112: 1, L0370: 1,	L0598: 1, L0769: 1,	L0630: 1, L0800: 1,
		· · ·																									
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L0648: 1, L0363: 1, L0768: 1, L0649: 1, L0803: 1, L0775: 1, L0375: 1, L0651: 1, L0784: 1, L0523: 1, L0784: 1, L0523: 1, L0527: 1, L0657: 1, L0635: 1, L0776: 1, L0664: 1, H0691: 1, H0693: 1, H0691: 1, H0693: 1, H0689: 1, H0693: 1, L0748: 1, L0743: 1, L0748: 1, L0779: 1, L0748: 1, L0751: 1, L0749: 1, L0768: 1, S0434: 1, L0604: 1, L0366: 1, S0106: 1 and S0021: 1.	
	Thr-35 to Asn-41.
	4345
	231 - 353
	2170
	HVVDT25R
	HVVDT25

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				•																									
	L0748: 11, L0758: 10,	L0747: 8, L0439: 7,	H0144: 6, L0805: 5,	L0662: 4, H0341: 3,	H0052: 3, L0794: 3,	L0803: 3, L0809: 3,	H0672: 3, L0741: 3,	L0752: 3, H0619: 2,	S0222: 2, H0013: 2,	H0014: 2, H0266: 2,	H0553: 2, L0455: 2,	H0591: 2, L0770: 2,	L0646: 2, L0764: 2,	L0666: 2, L0665: 2,	H0547: 2, S0126: 2,	L0596: 2, L0589: 2,	L0605: 2, H0543: 2,	H0423: 2, H0624: 1,	H0556: 1, H0686: 1,	S0040: 1, H0717: 1,	H0671: 1, S0476: 1,	L0717: 1, H0411: 1,	H0586: 1, H0333: 1,	H0574: 1, L0021: 1,	H0575: 1, H0618: 1,	S0010: 1, H0318: 1,	H0544: 1, H0009: 1,	H0050: 1, L0471: 1,	L0163: 1, S6028: 1,
	Glu-11 to Arg-17,	Arg-66 to Pro-79,	ر ر	Ser-116 to Ser-125.														, ,											
4346	4347																												
109 - 471	2 - 460						_																	•					
2171	2172					·																			-				
HVVDT29R	HVVDT44R				-																								
HVVDT29	HVVDT44	7																											

S0022: 1, S0214: 1, H0628: 1, L0456: 1, S0366: 1, S0036: 1, H0090: 1, H0038: 1, H0040: 1, H0551: 1, H0264: 1, H0652: 1, S0112: 1, T0041: 1, H0647: 1, H0652: 1, L0638: 1, L0768: 1, L0638: 1, L0768: 1, L0649: 1, L0774: 1, L078: 1, L0659: 1, L078: 1, L0659: 1, L078: 1, L0663: 1, L079: 1, H0639: 1, H055: 1, H0627: 1, H055: 1, H0627: 1, L074: 1, L0754: 1, L0668: 1, L0594: 1, S0026: 1, H0665: 1,	H0136: 1, H0216: 1 and H0422: 1. H0672: 2 and S6028: 1.
NENEREVENTULU DE EEUTO VIN	H H Asn-1 to Leu-6.
	600 4348
	2173 328 - 600
	HVVDU49R
	HVVDU49

			,				
							,
						L0766: 3, H0651: 2, H0686: 1, H0656: 1, S0358: 1, L0773: 1, L0775: 1, L0657: 1, L0809: 1, L0792: 1 and L0731: 1.	S0152: 7, L0601: 4, H0013: 3, H0551: 3, H0264: 3, H0521: 3, S0046: 2, H0050: 2, H0266: 2, S0022: 2, H0031: 2, H0644: 2, H0494: 2, H0519: 2, H0556: 1, S0040: 1, T0049: 1, S0001: 1, S0356: 1, S0354: 1, S0376: 1, S0045: 1,
	Ser-1 to Pro-9.						Lys-41 to Asp-8, Lys-41 to Gln-50.
4349	4350	4351	4352	4353	4354	4355	4356
3 - 266	2 - 502	294 - 455	14 - 511	2 - 391	11 - 178	167 - 343	3 - 197
2174	2175	2176	2177	2178	2179	2180	2181
HVVDW02 HVVDW02R	HVVDW61 HVVDW61R	HVVDX40 HVVDX40R	HVVDX90 HVVDX90R	HWHHD07 HWHHD07R		HWLJR51R	HWLME48 HWLME48R
HVVDW02	HVVDW61	HVVDX40	HVVDX90	HWHHD07	HWLAC51	HWLJR51	HWLME48

H0550: 1, H0486: 1, T0039: 1, T0040: 1, S0280: 1, H0042: 1, H0575: 1, T0082: 1, H0421: 1, L0471: 1, H0373: 1, H0615: 1, H0622: 1, L0483: 1, S0364: 1, H0591: 1, H0268: 1, H0591: 1, L0649: 1, L0364: 1, L0649: 1, L0538: 1, L0659: 1, S0428: 1, H0144: 1, L0602: 1, S0390: 1, S0028: 1, L0758: 1, S0434: 1, L0758: 1, S0434: 1, L0485: 1 and H0543: 1.				
		Cys-6 to Ser-12, Gln-27 to Glu-32, Arg-52 to Arg-67,	Asp-140 to Asp- 145.	Thr-26 to Ile-34.
	4357	4358		4359
	209 - 373	1 - 435		43 - 210
	2182	2183		2184
	HWLVY65R	HWMIB35R		HWNFO25 HWNFO25R
	HWLVY65	HWMIB35		HWNFO25

	360
	EF90R 2185   1 - 300   4360
	2185
A	HWWEF90   HWWEF90R   2185
	HWWEF90

[0040] The first column in Table 1 provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig, and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods known in the art and/or as described elsewhere herein.

The second column in Table 1 provides a unique "Contig ID" identification for each contig sequence. The third column provides the "SEQ ID NO:X" identifier for each of the ovarian associated contig polynucleotide sequences disclosed in Table 1. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1, column 5, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.

[0042] The fifth column in Table 1 provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 4. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.

Column 6 in Table 1 lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1. It

will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

[0044] Column 7 in Table 1 provides an expression profile and library code: count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1, which can routinely be combined with the information provided in Table 4 and used to determine the normal or diseased tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ³³P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. The sequences disclosed herein have been determined to be

predominantly expressed in ovarian tissues, including normal and diseased ovarian tissues (See Table 1, column 7 and Table 4).

[0045] Column 8 in Table 1 provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.

[0046] A modified version of the computer program BLASTN (Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1 under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.

Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIMTM (*supra*). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 9, Table 1, labeled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification numbers (column 1), and provides a description of the associated disease in Column 2.

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Clone ID	Contig ID:	SEQ		PFam/NR Description	PFam/NR Accession	Score/	NT	NT To
7:0		NO.X	Method		Number	I dentity	FIORE	
HOVCD34	396327	11	blastx.2	(AK000844) unnamed protein product [Homo sapiens]	dbj BAA91396.1	%85	319	167
HEBGD58	498281	12	blastx.2	eggshell protein - fluke (Schistosoma haematobium) (subclone 1	pir A44805 A44805	74%	C	86
HETCD42	533532	13	blastx.2	actin capping protein alpha subunit [Homo sapiens]	gb AAA88848.1	100%	06	947
HTXKC18	535854	14	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	62%	873	929
HLDRK20	553765	15	blastx.2	complement factor B [Homo sapiens]	emb[CAA51389.1	91%	150	1283
H2MBD33	558474	16	blastx.2	NBR2 PROTEIN (NEXT TO BRCA1 GENE 2 PROTEIN).	sp 015453 NBR2_H UMAN	100%	138	290
HSYBX61	558708	17	blastx.2	N-cadherin [Homo sapiens]	gb AAA03236.1	%86	3	515
HELHC03	562745	18	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF1 18094_21	67% 81%	1063 1154	905
HOFMP70	585385	19	blastx.2	precursor polypeptide	emb CAA33261.1	75%	120	347

		989	189	746		400	498	393		434		431						431								431	431	431
		522	79	681		7	463	133		117	192	189	12	192	195	192	156	189	156	195	195	192	15	192	195	192	15	195
			%66	%06	, 000	100%	91%	100%		100%	20%	51%	40%	51%	52%	53%	47%	54%	46%	52%	47%	48%	38%	48%	20%	46%	37%	46%
		gb AAA88038.1	gb[AAA59491.1]	- 0	* I * * * * * * * * * * * * * * * * * *	gb AAD34121.1 AF1	51884_1	gb AAD02337.1		gb AAC33512.1	•																,	
(AA -21 to 782) [Homo	sapiens]	unknown protein	leukocyte adhesion	glycoprotein precursor	[HOIIIO Sapiens]	(AF151884) CGI-126	protein [Homo sapiens]	(AF044671) MM46	[Homo sapiens]	(AF019406) collagen	type IX alpha 2 chain	[Homo sapiens]	1														,	
		blastx.2	blastx.2		,	blastx.2		blastx.2		blastx.2																	,	
		20	21		-	22		23		. 24																		
7		585675	588869			638220		654868		704405																		
		HSKNZ25	HDPFK39			HL1AB07		HHGAS83		HTSGU37																	,	

431	431	431	431	431	431	434	425	461	434	413	395	365	431	347	502	490	481	472	481	481	481	481	481	502	487	457	432	218	133
195	201	24	189	189	180	195	192	195	195	195	45	192	195	192	395	395	383	401	401	383	395	383	383	380	422	419	331	430	249
48%	20%	37%	48%	48%	44%	46%	43%	40%	43%	48%	34%	44%	36%	47%	47%	29%	44%	52%	46%	38%	43%	40%	38%	33%	47%	61%	29%	52%	37%
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100	418	421	199	563	580	1007	547	1008	1008	846	232	20	627	367	440	497
240	471	501	14	402	101	585	149	619	619	775	969	229	905	122	348	500
38%	20%	32%	64%	87%	%56	95%	51%	35%	32%	38%	73%	77%	63%	%68	40%	81% 86%
			emb CAB42187.1	emb CAA57432.1	emb CAA90511.1	-					gb[AAA88038.1]			gb AAC78561.1		emb CAA45263.1
			unnamed protein product [unidentified]	fusion protein: ubiquitin (bases 43_513); ribosomal protein S27a (bases 217_532) [Rattus norvegicus]	tyrosine kinase	activator protein 1	(TKA-1) [Homo	sapiens			unknown protein	[Homo sapiens]	1	(AF046001) zinc finger	transcription factor [Homo sapiens]	cytochrome oxidase subunit III [Phoca vitulina]
			blastx.2	blastx.2	blastx.2						blastx.2			blastx.2		blastx.2
			25	26	27						28			29		30
			705692	711500	732342						745343			746416		762806
			H2LAN34	HPMBZ40	HLYEP52						HTTEC47			HOFM090		HCHND34

609	631	812	55	632	576		1967	1867	1007	458	417	281	101	390	419	879	694			418
424 611	386	42	5	808	644		٥	° «	0	45	193	150	676	807	3/2	328	74			41
91%	%08	%18	52%	%19	45%		7070	%C8	0/70	100%	%06	%89	2,70	34%	35%	%88	%66			%02
emb CAB42212.1	dbj BAB29387.1	gb AAA36470.1		gb AAB26149.1			~L  A A TO 2403 & 1  A E 1	golara 24030.1/A1.1	21/22 1	emb CAA61761.1	ohlAA61243.11					gb AAA60120.1	gb AAA59594.1	-		emb CAA55204.1
unnamed protein product [unidentified]	(AK014485) putative [Mus musculus]	acidic ribosomal	phosphoprotein (P0) [Homo sapiens]	X-linked retinopathy	protein [C-terminal, clone XEH.8c] [human,	Peptide Partial, 100 aa]	[Homo sapiens]	(Ar 151799) COI-40	protein promo saprens	rTSbeta [Homo	tyrosine kinase recentor	[Homo saniens]				pericentriol material 1 [Homo sapiens]	O-6-methylguanine-	DNA methyltransferase	[Homo sapiens]	ribosomal protein L22
blastx.2	blastx.2	blastx.2		blastx.2			1-10-04-0	OldStx.2		blastx.2	blastx 2					blastx.2	blastx.2			blastx.2
31	32	33		34			3.5	CC		36	37	· ·				38	39			40
785328	794213	806819		824886	,		22017	0/1070		828574	298878					828872	829298			829958
HAMGI86	HLWCN67	HOFAC09		HRDEL61			0240441	FILLFOROU		HPRTS71	HOHB190					HOHAL47	HYASE58			HKAAH95

	391	610	132	170	611	1525	1785	1255	1114	1033	991	886	934	1096	868	973	856	892	712	712	1150	973	946	206	991	589	589
	44	119	88	09	573	2	1525	70	20	20	17	20	17	20	∞	2	14	70	17	70	365	70	413	11	2	20	17
	%96	82%	93%	37%	26%	%66	100%	79%	792	30%	27%	29%	78%	25%	27%	78%	78%	27%	78%	767	24%	24%	32%	767	24%	30%	32%
	gb AAA20506.1	gb AAB23369.1				gb AAB47488.1 AAB	47488					*****															•
[Rattus norvegicus]	activating transcription factor 3 [Homo sapiens]	heat shock protein 90,	hsp90 [rats, brain,	Peptide, 724 aa] [Rattus	sp.]	tenascin X [Homo	sapiens]																				
	blastx.2	blastx.2				blastx.2													ĭ								
	41	42				43																					
	829981	830195				830497						,				,											
	нтпо02	HWACG9	_			HUFBX52																			-	٠	

712	601	856	1111	1012	562	1096	565	1135	1045	1096	1231	1141	1111	1153	1309	1135	1117	1021	604	1690	1096	1684	1135	1309	1684	877	331	1045	1684
20	20	2	716	176	176	437	92	521	437	434	488	860	557	098	557	608	641	437	437	1487	557	1487	788	809	1487	638	35	455	1487
762	27%	27%	31%	25%	30%	25%	767	25%	23%	23%	70%	25%	22%	25%	24%	78%	70%	27%	39%	36%	27%	78%	23%	22%	30%	33%	767	23%	28%
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1684	825	1684	1690	1684	1690	501	1190	1150	1142	404	498	1663	1181	1181	1027	1436	1118	257	255	1083	1146	480	1175	315	357	181	266	1305
1487	622	1487	1556	1487	1487	316	1110	962	1101	267	52	1607	1089	1089	650	1398	1089	189	118	626	1024	361	1050	46	175	143	134	1018
27%	30%	25%	37%	78%	23%	27%	48%	30%	64%	32%	79%	25%	32%	32%	22%	53%	%09	41%	767	37%	767	35%	34%	%86	%001	95%	100%	%26
																								gb AAA35886.1	emb[CAA28169.1]		gb[AAD09765.1]	
																								2A9 peptide [Homo sapiens]	precursor polypeptide	[Homo sapiens]	(AF096304) putative	sterol reductase SR-1
																								blastx.2	blastx.2		blastx.2	
																								44	45		46	
																								831453	832454		833088	
																								HWLJE49	HLOBT44	,	HSLGG58	

976 1029	157 480	48 170	123 353			404 1096										
61%	%56	100%	100%			100%		1	1	H H	1 1		1 1	1 1	1 1	
	dbj BAA21510.1		gb AAB61158.1			gb AAA60239.1	gb AAA60239.1  gb AAC72810.1	gb AAA60239.1  gb AAC72810.1	gb AAA60239.1  gb AAC72810.1	gb AAA60239.1  gb AAC72810.1	gb AAA60239.1  gb AAC72810.1	gb AAA60239.1  gb AAC72810.1  gb AAC52117.1	gb AAA60239.1  gb AAC72810.1  gb AAC52117.1	gb AAA60239.1  gb AAC72810.1  gb AAC52117.1  emb CAA90017.1	gb AAA60239.1  gb AAC72810.1  gb AAC52117.1  emb CAA90017.1  gb AAB34132.1	gb AAA60239.1  gb AAC72810.1  gb AAC52117.1  gb AAB34132.1  gb AAB34132.1
[Homo sapiens]	(AB005624) rig-analog	DNA-binding protein [Sus scrofa]	cysteine-rich intestinal protein [Homo sapiens]	-	eren anna had an	quinone oxidoreductase [Homo sapiens]	quinone oxidoreductase [Homo sapiens] (AF081114) ORF2	quinone oxidoreductase [Homo sapiens] (AF081114) ORF2 [Mus musculus	quinone oxidoreductase [Homo sapiens] (AF081114) ORF2 [Mus musculus domesticus]	quinone oxidoreductase [Homo sapiens] (AF081114) ORF2 [Mus musculus domesticus]	quinone oxidoreductase [Homo sapiens] (AF081114) ORF2 [Mus musculus domesticus]	quinone oxidoreductase [Homo sapiens] (AF081114) ORF2 [Mus musculus domesticus]	quinone oxidoreductase [Homo sapiens] (AF081114) ORF2 [Mus musculus domesticus] kinesin-like motor protein KIF1C [Homo sapiens]	quinone oxidoreductase [Homo sapiens] (AF081114) ORF2 [Mus musculus domesticus] kinesin-like motor protein KIF1C [Homo sapiens] plasmolipin [Rattus norvegicus]	quinone oxidoreductase [Homo sapiens] (AF081114) ORF2 [Mus musculus domesticus] kinesin-like motor protein KIF1C [Homo sapiens] plasmolipin [Rattus norvegicus] P26s4 [Cricetinae gen. sp.]	quinone oxidoreductase [Homo sapiens] (AF081114) ORF2 [Mus musculus domesticus] kinesin-like motor protein KIF1C [Homo sapiens] plasmolipin [Rattus norvegicus] P2684 [Cricetinae gen. sp.] (AF161356) HSPC093
****	blastx.2		blastx.2			blastx.2										
	47		48			49	49	49	50	50	50	50	50 51	50 51 51	50 51 52 53	50 51 52 53 53
	840756		840862			841088	841088	841088	841088	841088	841088	841088 843485	841088 843485 844534	841088 843485 844534 847355	841088 843485 844534 847355 847647	841088 843485 844534 847355 847647 847821
	HCHBQ33	,	HDTMK30			HDPFX64	HDPFX64 HODFG71	HDPFX64 HODFG71	HDPFX64 HODFG71	HDPFX64 HODFG71	HDPFX64 HODFG71	HODFG71 HCE3165	HODFG71 HCE3165	HODFG71 HCE3165 HSAVH65	HODFG71 HCE3165 HSAVH65 HBXFT41	HODFG71 HCE3165 HSAVH65 HBXFT41 HBMCM3

502	368	437	735	1610	316	691 1090 225	1202	380	721 536 427
534	3	225 542	628	15	80	224 647 160	1498	508	590 429 317
63%	57%	40%	%16	%66	100%	94% 95% 95%	%69	79%	65% 61% 67%
	pir JC7287 JC7287	gb[AAD48374.1]	gb AAF00037.1	emb CAA12176.1	gb AAD20967.1	gb AAF04914.1 U670 85_1	dbj BAA91131.1	dbj BAA91205.1	gb AAF22026.1 AF1 18094_21
	G-protein coupled receptor, SREB1 - human	(AF123880) gag polyprotein [multiple sclerosis associated retrovirus element]	(AF089895) cAMP-dependent protein kinase subunit R2 beta [Oryctolagus cuniculus]	(AJ224875) glucosyltransferase [Homo sapiens]	(AF070661) HSPC005 [Homo sapiens]	TcD37 homolog [Homo sapiens]	(AK000385) unnamed protein product [Homo sapiens]	(AK000496) unnamed protein product [Homo sapiens]	(AF118082) PRO1902 [Homo sapiens]
	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2
	55	56	57	58	59	09	61	62	63
	849064	859572	859622	862010	862481	863515	866444	696298	869701
	HACBO42	HODBF86	HOABP90	HE8UE42	HUSJJ59	HSSDM07	HBCBW52	HOGAS18	HHSDL18

798	815	628	911	643	207	100		763			373	383	454		440			504	,	103		292		
1232	1708	173	156	44	104	† O T		170			23	3	350		3			4		207		99		
100%	%67	100%	%86	93%	210/	0/16		100%			%09	53%	%08		%16			%86		85%		100%		
gb AAD34622.1 AF1	53191 1	gb AAA35499.1	emb CAA39271.1	emb CAA75163.1	1 0 D 200 1 1	cma CAS/00+0.1		emb CAA58127.1			dbj BAA23661.1		gb[AAC17109.1]		dbj BAA91741.1			dbj BAA91018.1		emb CAA59444.1		emb CAA32763.1		
(AF153191) nm23-H7	Homo sapiens	A4 protein [Homo sapiens]	5'-nucleotidase [Homo	SPIN protein [Homo	sapiens	(ALLS7006) hypothetical protein	[Homo sapiens]	neutrophil gelatinase	associated lipocalin	[Homo sapiens]	GCP170 [Homo	sapiens]	(AF064604) KE03	protein [Homo sapiens]	(AK001527) unnamed	protein product [Homo	sapiens]	(AK000219) unnamed	protein product [Homo	catalase	[Campylobacter jejuni]	propionyl-CoA	carboxylase [Homo	sapiens
blastx.2		blastx.2	blastx.2	blastx.2	1-10.04-0	Diastx.2		blastx.2			blastx.2		blastx.2		blastx.2			blastx.2		blastx.2		blastx.2		
99		99	29	89	9	60		70			7.1		72		73			74		75		92		
874506		874608	874787	874891	074020	0/4730		874931			875093		875352		875371			875682		876052		876487		
HLDOG81		HTXQF81	HCRNG90	HPWCL64	71111	H W LIMI V O	l	H2MAC06			HWLRF06		HODDO41		HCHMQ74			HT3AI55		HMVBD68		HOCTA74		

HISET05	989928	11	blastx.2	(AJ270993) homeobox	emb CAB65909.1	95%	511	849
				protein [Homo sapiens]	-	%99	801	926
HCRQM22	876696	78	blastx.2	hepatocyte nuclear	gb AAC51129.1	84%	3	401
1				factor-3/fork head				•
				homolog 11B [Homo 1				
HLHTC92	877310	62	blastx.2	neuronal PAS2 [Homo	gb AAB47250.1	%16	197	418
-				sapiens		%56	142	201
				1		32%.	482	574
H2CAA49	879484	80	blastx.2	(AF053651) cellular	gb AAC35297.1	100%	954	2108
			,	apoptosis susceptibility				
-				protein [Homo sapiens]				
HETK094	880545	81	blastx.2	(AL132954) putative	emb CAB75750.1	35%	53	838
,				protein [Arabidopsis		23%	1556	2080
				thaliana		33%	1155	1298
HOFM023	882466	82	blastx.2	(AF089745) FK506-	gb[AAC78853.1]	%56	14	499
				binding protein [Homo		54%	14	499
				sapiens]		46%	14	454
				1		52%	194	499
HNTNP58	882787	83	blastx.2	(AF118082) PRO1902	gb AAF22026.1 AF1	62%	2230	2391
				[Homo sapiens]	18094_21	%09	2382	2480
HOFNY28	888480	84	blastx.2	AF-1 [Homo sapiens]	gb AAA16955.1	%69	18	476
						62%	416	658
HE8MQ01	889128	85	blastx.2	(AF118082) PRO1902	gb AAF22026.1 AF1	71%	2699	2490
				[Homo sapiens]	18094_21			
HE2RG21	891139	98	blastx.2	peptidylprolyl	emb CAA37039.1	100%	59	553
				isomerase [Homo				
				sapiens]				
HHENW77	894855	87	blastx.2	vacuolar proton-ATPase subunit M9 2	emb CAA75571.1	71%	66	338
		*		7. CIVI JILINOUS OCH LIVI				

				[Homo sapiens]				
HOFNU55	897344	88	blastx.2	(AP000616) similar to RING-H2 finger	dbj BAA85438.1	%0 <i>L</i>	654	544
				protein RHA1a				
			-	(AF078683) [Oryza				,
				sativa				
HE8TE40	897862	68	blastx.2	Rabin3 [Rattus	gb AAA67890.1	87%	152	1114
				norvegicus]		93%	1086	1532
HNTCH73	900546	06	blastx.2	bone morphogenetic	gb AAA51835.1	100%	195	1418
				protein 2B [Homo sapiens]				
HHFBY53	902534	91	blastx.2	IDN4-GGTR14	\$Y6Y6Y5 Q9Y6Y5	%56	9	128
				PROTEIN.		25%	837	926
						70%	801	932
						22%	833	940
						20%	836	955
HDPIE44	904763	92	blastx.2	(AF200706) UNC-84A	gb AAF15883.1 AF2	%27	1852	2418
				[Caenorhabditis	00706_1	39%	170	313
				elegans]		25%	1375	1524
						42%	109	171
HHSAX10	904783	93	blastx.2	delta-9 desaturase [Gallus gallus]	emb CAA42997.1	71%	6	089
HPIAX83	990906	94	blastx.2	weakly similar to E.	gb AAA81143.1	39%	1167	2459
				nidulans bimA gene		37%	588	1025
				product (SP:P17885)		19%	1776	2474
		2111	٠	[Caenorhabditis		22%	1716	2186
				elegans]	•	21%	1653	2093
	ł					24%	2274	2540
HOFNG28	908746	95	blastx.2	CD59	gp 062680 CD59_PI	54%	51	401
				GLYCOPROTEIN	כ			

(MEMBRANE   ATTACK COMPLEX
1 (PROTECTIN)
96   blastx.2   (AL050283)
hypothetical protein
97 blastx.2
98 blastx.2
99 blastx.2
-
100 blastx.2
:
01 blastx.2
02 blastx.2

HRADL40	919433	103	blastx.2	dodecenoyl-CoA delta-	emb[CAA81066.1]	100%	37	942
				isomerase [Homo				
HOFMP73	919895	104	blastx.2	cathepsin B [Homo saniens]	gb AAC37547.1	85%	113	1129
HOFMS02	920253	105	blastx.2	ATPase subunit 6 [Phoca vitulina]	emb CAA45262.1	54%	156	386
HUVHD12	921707	106	blastx.2	inositol polyphosphate 4-phosphatase [Rattus	gb AAB01069.1	35%	187 687 43	492 953 102
HMVDQ4 1	922191	107	blastx.2	(AL137496) hypothetical protein	emb CAB70771.1	%66 %86	384	809
HODGI03	922879	108	blastx.2	replication protein A 14kDa subunit [Homo sapiens]	gb AAA58350.1	100%	447	635
HODHD14	922955	109	blastx.2	unknown protein [Homo sapiens]	gb AAA88036.1	%09	22	174
НОДДСОЗ	925296	110	blastx.2	ORF4 [Rattus norvegicus]	emb CAA37647.1	40% 58% 50%	126 344 307	245 433 336
HVCAG04	925735	111	blastx.2	(AF034633) GPR39 [Homo sapiens]	gb AAC26082.1	100%	1281 1364	781 1293
HCRCE02	925837	112	blastx.2	putative p150 [Homo sapiens]	gb AAC51269.1	47% 50% 31% 40%	1 709 329 876	489 867 607 971
HHERA91	926067	113	blastx.2	(AK000530) unnamed protein product [Homo	dbj BAA91234.1	100%	2031	2399

				sapiens				
HAGDL82	928396	114	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	75% 75%	210	208 257
HWBDS34	930484	115	blastx.2	Similar to S. cerevisiae hypothetical protein L3111 (S59316) [Homo sapiens]	dbj BAA13405.1	%66	57	983
H6ESA39	933568	116	blastx.2	BCDNA:LD21720 PROTEIN.	sp Q9XZ25 Q9XZ25	47% 26%	623	1150
HPCOR06	933678	117	blastx.2	ORFII [Homo sapiens]	emb CAA36480.1	73%	99	266 459
						56%	28	144
HTFNO06	933989	118	blastx.2	(AC009177) unknown protein [Arabidopsis thaliana]	gb AAF27013.1 AC0 09177_3	39%	95	505
HODFY08	935520	119	blastx.2	(AB012223) ORF2 [Canis familiaris]	dbj BAA25253.1	45%	79	447
HRACK27	935717	120	blastx.2	(AL133045) hypothetical protein [Homo sapiens]	emb CAB61372.1	%16	681	1283
HRACW30	940639	121	blastx.2	(AF113887) kappa 1 immunoglobulin light chain [Homo sapiens]	gb AAD29608.1	93%	79	786
HOFOC32	941969	122	blastx.2	placental protein Diff33 [Homo sapiens]	emb CAB09783.1	84%	. 84	1502
HTTDM15	942511	123	blastx	(AL033127) hypothetical protein	emb CAA21869.1	27% 20%	759	427 959

1048		488	125	376		2072	2037	2113	182	106	310	243	365	174	61	1343		,	135	539	732	740	616			536
596		583	229	492		624	1984	2039	66	7	257	169	177	64	2	n			40	72	604	567	29			£ .
32%		%59	43%	34%		94%	%88	52%	%09	21%	%99	64%	46%	45%	85%	%66			93%	46%	36%	25%	100%			100%
	1	emb CAA43593.1				emb CAB43393.1			gb AAB60345.1				gb AAA37565.1			gb AAD19826.1			sp Q9Y6Y5 Q9Y6Y5	gb AAA51851.1			dbj BAA88923.1			gb AAD17317.1
[Schizosaccharomyces	pompe	L1 retroposon, a	portion of its ORF2	sequence [Rattus	norvegicus]	(AL050294)	hypothetical protein	[Homo sapiens]	ORF2, encodes a	reverse transcriptase	homolog [Homo	sapiens	envelope polyprotein	[Mus musculus]	1	(AF038963) RNA	helicase [Homo	sapiens]	IDN4-GGTR14 PROTEIN.	human complement	C1r [Homo sapiens]	1	(AB023584) reduced	expression in cancer	[Homo sapiens]	(AF124522) tetraspan NET-2 [Homo sapiens]
		blastx.2				blastx.2			blastx.2				blastx.2		,	blastx.2			blastx.2	blastx.2			blastx.2			blastx.2
		124				125			126				127			128			129	130			131			132
		944031				946502			948608				948708			948719			949001	949574			950257			950475
		HOVAY63				HDPFY41			HCOPB92				HBJHO83			HWME04	4		HFXJA96	HTLGV19			HMSAC18			HAPRB43